



وزارة التعليم العالي والبحث العلمي  
جهاز الإشراف والتقييم العلمي  
دائرة ضمان الجودة والاعتماد  
الأكاديمي  
قسم الاعتماد



# وصف البرنامج الأكاديمي والمقررات الدراسية لبرنامج بكالوريوس العلوم في الهندسة المعمارية

**Academic Program and Course  
Description  
for the B.Sc. in Architectural  
Engineering Program**

## المقدمة:

يُعد برنامج بكالوريوس العلوم في هندسة العمارة أحد البرامج الأكاديمية الأساسية في كلية الهندسة بجامعة بابل. يهدف البرنامج إلى إعداد خريجين قادرين على تحليل التحديات المعمارية والحضرية وتطوير حلول تصميمية مبتكرة ومستدامة، وذلك من خلال دمج المعارف الهندسية والتقنية بالفهم الفني والبيئي والثقافي، وبما يتماشى مع التطورات العلمية الحديثة ومتطلبات التنمية الوطنية.

تمتد الدراسة في البرنامج لـ خمس سنوات وفق نظام المقررات الدراسية (الفصلي)، حيث يتخرج الطلاب بعد إتمام عشرة فصول أكاديمية، بالإضافة إلى متطلبات التدريب الصيفي ومشروع التخرج النهائي الشامل (الأطروحة)، مما يعزز مهاراتهم العملية ويساعدهم على اكتساب فهم أعمق للجوانب التطبيقية للممارسة المهنية الواقعية.

يسعى البرنامج جاهدًا لمواكبة التطورات في مجال التصميم المعماري والحضري من خلال التطوير المستمر للمناهج الدراسية بما يتناسب مع متطلبات سوق العمل والتطورات العالمية في التعليم الهندسي والمعماري. علاوة على ذلك، يعمل برنامج بكالوريوس هندسة العمارة على تعزيز قدرات الطلاب في مجالات متنوعة، تشمل: التصميم المعماري، تركيب المباني، التصميم والتخطيط الحضري، تاريخ ونظريات العمارة، الاستدامة والعمارة الملائمة للمناخ، بالإضافة إلى تقنيات النمذجة الرقمية.

كما يحرص البرنامج على تعزيز القيم المهنية والأخلاقية، وتشجيع التفكير النقدي والإبداع وخدمة المجتمع. ويمكن لخريجي البرنامج العمل في مختلف المجالات ضمن القطاعين العام والخاص، مثل الوزارات المعنية بالإسكان والإعمار والبلديات، الهيئات التنظيمية، المكاتب والاستشارات الهندسية، شركات المقاولات، فضلاً عن مشاريع الحفاظ على التراث ومشاريع التنمية الحضرية المستدامة.

|                                                                                                                                                                                                                                     |
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| <b>١. رؤية البرنامج</b>                                                                                                                                                                                                             |
| يسعى قسم هندسة العمارة بجامعة بابل للريادة الأكاديمية بإعداد معمارين مؤهلين عالمياً في التصميم والتخطيط والتكنولوجيا الحديثة كـ BIM. كما يلتزم بخدمة المجتمع وتحقيق التنمية المستدامة عبر ابتكار حلول معمارية وعمرانية صديقة للبيئة |

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| <b>٢. رسالة البرنامج</b>                                                                                                                                                                                                                                                    |
| يجمع برنامج بكالوريوس الهندسة المعمارية بين المبادئ الهندسية والجماليات لتأهيل الطلاب في مجالات التصميم، ومواد البناء، والاستدامة البيئية. كما يركز على التطبيق العملي عبر المختبرات والمشاريع الميدانية لتمكين الخريجين من تحويل أفكارهم الإبداعية إلى مبان واقعية وأمنة.. |

|                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <b>٣. أهداف البرنامج</b>                                                                                                                                                                                                                                                                                                                                                                            |
| يهدف برنامجنا للهندسة المعمارية منهجاً دراسياً شاملاً يُزود الطلاب بأساس متين في الجوانب التقنية والإبداعية لهذا المجال.<br>من خلال مزيج من المقررات النظرية والمشاريع العملية، يهدف برنامجنا إلى تزويد الطلاب:<br>١. المهارات والمعارف اللازمة للنجاح في مجال التصميم المعماري والحضري.<br>٢. تطوير فهم الطلاب لمبادئ التحليل والتصميم الإنشائي<br>٣. تعزيز الإبداع والابتكار في التصميم المعماري. |

|                                                                                                                            |
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| <b>٤. الاعتماد البرامجي</b>                                                                                                |
| البرنامج المعتمد هو Accreditation Board for Engineering and Technology (ABET) لكن غير حاصل على الاعتماد البرامجي حتى الان. |

|                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------|
| <b>٥. المؤثرات الخارجية الأخرى</b>                                                                                                |
| زيارات ميدانية + تدريب صيفي + ندوات + ورش عمل + مشاركة الاقسام المعمارية بمناقشة المشاريع + مشاركة في المؤتمرات العربية والعالمية |

| <b>٦. هيكلية البرنامج</b> |                                        |                                         |                |           |
|---------------------------|----------------------------------------|-----------------------------------------|----------------|-----------|
| هيكل البرنامج             | عدد المقررات                           | وحدة دراسية                             | النسبة المئوية | ملاحظات * |
| متطلبات المؤسسة           | مسار بولونيا = 8<br>النظام الفصلي = 0  | مسار بولونيا = 72<br>النظام الفصلي = 0  |                |           |
| متطلبات الكلية            | 0                                      | 0                                       | %0             |           |
| متطلبات القسم             | مسار بولونيا = 56<br>النظام الفصلي = 0 | مسار بولونيا = 228<br>النظام الفصلي = 0 | %100           |           |
| التدريب الصيفي            | 1                                      | 0                                       | %0             |           |
| أخرى                      | 0                                      | 0                                       | %0             |           |

\* ممكن ان تتضمن الملاحظات فيما إذا كان المقرر أساسي او اختياري.

| <b>٧. وصف البرنامج</b> |                      |                           |                  |      |
|------------------------|----------------------|---------------------------|------------------|------|
| السنة / المستوى        | رمز المقرر أو المساق | اسم المقرر أو المساق      | الساعات المعتمدة |      |
|                        |                      |                           | نظري             | عملي |
| المستوى الاول-         | Arch1111             | تصميم معماري   رسم معماري | 2                | 10   |
| الفصل الاول            | Arch1114             | رسم يدوي                  | 1                | 6    |
|                        |                      |                           |                  | 0    |

|   |    |   |                                              |            |                                  |
|---|----|---|----------------------------------------------|------------|----------------------------------|
| 0 | 0  | 2 | مبادئ فن و عمارة I                           | Arch1102   |                                  |
| 0 | 0  | 2 | رياضيات I                                    | Arch1103   |                                  |
| 0 | 2  | 1 | حاسوب I                                      | Arch1105   |                                  |
| 0 | 0  | 2 | اللغة العربية                                | UOBAB1102  |                                  |
| 0 | 0  | 2 | الديمقراطية وحقوق الانسان                    | UOBAB1104  |                                  |
| 0 | 0  | 2 | مبادئ فن و عمارة II                          | Arch1211   | المستوى الأول<br>- الفصل الثاني  |
| 0 | 4  | 2 | مبادئ الرسم بالحاسوب                         | Arch1214   |                                  |
| 0 | 0  | 2 | رياضيات II                                   | Arch1213   |                                  |
| 0 | 0  | 2 | اللغة الانكليزية I                           | UOBABb1101 |                                  |
| 0 | 4  | 2 | تركيب مباني I                                | Arch1212   |                                  |
| 0 | 10 | 2 | تصميم معماري II & رسم معماري II              | Arch1216   |                                  |
| 0 | 2  | 2 | تركيب مباني II                               | Arch2316   | المستوى الثاني<br>- الفصل الاول  |
| 0 | 0  | 4 | تاريخ عمارة I                                | Arch2305   |                                  |
| 0 | 2  | 1 | حاسوب II                                     | Arch2314   |                                  |
| 0 | 0  | 2 | جرائم حزب البعث                              | UOBAB2301  |                                  |
| 0 | 8  | 1 | تصميم معماري III                             | Arch2311   |                                  |
| 0 | 2  | 1 | رسم معماري III                               | Arch2312   |                                  |
| 0 | 4  | 1 | رسم يدوي II                                  | Arch2313   |                                  |
| 0 | 2  | 2 | تركيب مباني III                              | Arch2414   | المستوى الثاني<br>- الفصل الثاني |
| 0 | 8  | 1 | تصميم معماري IV                              | Arch2411   |                                  |
| 0 | 2  | 1 | رسم معماري IV                                | Arch2412   |                                  |
| 0 | 3  | 1 | رسم يدوي III                                 | Arch2413   |                                  |
| 0 | 3  | 1 | مبادئ الرسم بالحاسوب II                      | Arch2415   |                                  |
| 0 | 0  | 2 | لغة أنكليزية II                              | UOBAB2302  |                                  |
| 0 | 0  | 2 | اللغة العربية II                             | UOBAB2001  |                                  |
| 0 | 0  | 2 | منطق ومنهجية تصميم                           | Arch2406   |                                  |
| 0 | 10 | 2 | تصميم معماري V                               | Arch3511   | المستوى الثالث<br>- الفصل الاول  |
| 0 | 2  | 2 | تركيب مباني IV                               | Arch3512   |                                  |
| 0 | 2  | 2 | انشاءات I                                    | Arch3513   |                                  |
| 0 | 0  | 4 | تاريخ عمارة II                               | Arch3514   |                                  |
| 0 | 0  | 4 | تخطيط حضري                                   | Arch3515   |                                  |
| 0 | 0  | 2 | خدمات صحية للمباني                           | Arch3516   |                                  |
| 0 | 10 | 2 | تصميم معماري VI                              | Arch3611   | المستوى الثالث<br>- الفصل الثاني |
| 0 | 4  | 2 | الإدارة والنمذجة والتطبيق في البيئات الحضرية | Arch3612   |                                  |
| 0 | 0  | 4 | انشاءات II                                   | Arch3613   |                                  |
| 0 | 0  | 4 | أساليب حفاظ                                  | Arch3614   |                                  |
| 0 | 0  | 2 | خدمات الانارة                                | Arch3615   |                                  |
| 0 | 0  | 2 | خدمات التكيف                                 | Arch3616   |                                  |
| 0 | 10 | 2 | تصميم معماري VII                             | Arch4711   | المستوى الرابع<br>- الفصل الاول  |
| 0 | 3  | 1 | تصميم فضاءات داخلية                          | Arch4702   |                                  |
| 0 | 0  | 4 | تقنيات بناء متقدمة                           | Arch4703   |                                  |
| 0 | 0  | 4 | نظريات العمارة                               | Arch4704   |                                  |
| 0 | 0  | 2 | اسكان                                        | Arch4705   |                                  |
| 0 | 0  | 4 | انشاءات III                                  | Arch4706   |                                  |
| 0 | 10 | 2 | تصميم معماري VIII                            | Arch4811   | المستوى الرابع<br>- الفصل الثاني |
| 0 | 3  | 1 | تصميم فضاءات خارجية                          | 4802Arch   |                                  |
| 0 | 3  | 1 | خدمات مساحة                                  | Arch4803   |                                  |

|   |    |   |                       |           |                                     |
|---|----|---|-----------------------|-----------|-------------------------------------|
| 0 | 3  | 1 | عمارة ومناخ           | Arch4804  |                                     |
| 0 | 0  | 2 | نظريات التصميم الحضري | Arch4805  |                                     |
| 0 | 0  | 2 | الصوتيات              | Arch4806  |                                     |
| 0 | 10 | 2 | تصميم حضري IX         | Arch5911  |                                     |
| 0 | 6  | 4 | أطروحة I              | Arch5912  | المستوى<br>الخامس -<br>الفصل الاول  |
| 0 | 2  | 2 | نظريات تصميم معماري   | Arch5903  |                                     |
| 0 | 0  | 4 | عمارة عربية معاصرة    | Arch5904  |                                     |
| 0 | 0  | 4 | عمارة عربية اسلامية   | Arch5905  |                                     |
| 0 | 0  | 2 | فلسفة عمارة           | Arch5906  |                                     |
| 0 | 20 | 2 | أطروحة II             | Arch51011 | المستوى<br>الخامس -<br>الفصل الثاني |
| 0 | 0  | 2 | تخمين ومواصفات        | Arch51002 |                                     |
| 0 | 0  | 2 | ممارسة مهنة           | Arch51003 |                                     |
| 0 | 0  | 2 | عمارة عراقية معاصرة   | Arch51004 |                                     |
| 0 | 0  | 2 | نظريات النقد المعماري | Arch51005 |                                     |

| ٨. مخرجات التعلم المتوقعة للبرنامج                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| المعرفة                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <p>1: فهم النظريات والمفاهيم المعمارية، والتعرف على المفاهيم والمبادئ الأساسية للتكوين، الفن، والكتلة، وفهم عناصر التصميم الثنائية والثلاثية الأبعاد.</p> <p>2: استيعاب القواعد والنظريات الهندسية والرياضية الأساسية المسؤولة عن ضبط النسب والأشكال الإسقاطية في الرسم المعماري.</p> <p>3: التمييز بين أدوات وتقنيات التعبير البصري المختلفة، سواء كانت يدوية تقليدية أو رقمية أولية عبر الحاسوب.</p> <p>4: شرح المفاهيم الأساسية للهوية الثقافية واللغوية والوعي بالاعتبارات البيئية والاجتماعية من خلال فهم القوانين واللوائح المعمارية والدولية.</p> |
| المهارات                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <p>ب1: تطبيق المهارات الخاصة بالهندسة المعمارية حيث يطبق مهارات الإسقاط الهندسي المعماري (المساقط، الواجهات، المقاطع) بدقة متناهية باستخدام الأدوات الهندسية.</p> <p>ب2: ترجمة الأفكار والملاحظات البصرية إلى رسومات حرة ومخططات يدوية تعبر عن الظل والمنظور والنسب بدقة مقبولة.</p> <p>ب3: توظيف المهارات الرياضية والبرمجية الأساسية في حل المشكلات التصميمية البسيطة والتعامل مع نظم التشغيل بكفاءة.</p> <p>ب4: تحليل التكوينات الفنية والمعمارية البسيطة لتفكيكها إلى عناصرها الأولية (النقطة، الخط، الشكل، الكتلة).</p>                             |
| القيم                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <p>ج1: الالتزام بأخلاقيات البيئة التعليمية والمرسم المعماري، بما في ذلك الأمانة العلمية، والالتزام بضوابط الوقت والتسليمات (Deadlines).</p> <p>ج2: تقبل النقد البصري والأكاديمي (Jury) خلال جلسات تقييم المشاريع، ويبدى مرونة في تطوير أفكاره التصميمية.</p> <p>ج3: تعزيز القيم الاجتماعية والبيئية، واحترام التنوع، وحقوق الإنسان في التفكير الأولي لتصميم الفضاءات التي تخدم المجتمع.</p> <p>ج4: الالتزام بالأخلاق المهني وتطوير مهارات التعلم الذاتي والعمل الجماعي المشترك مع زملائه في التمارين الفنية والتحليلات الأولية.</p>                      |

| ٩. استراتيجيات التعليم والتعلم                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>تتنوع استراتيجيات التعليم والتعلم في مجال هندسة العمارة لتشمل أساليب تهدف إلى تطوير مهارات الطلاب في التصميم والتفكير النقدي والإبداع. وتتمثل الاستراتيجيات المتبعة في قسم هندسة العمارة -جامعة بابل كما يأتي:</p> <ul style="list-style-type: none"> <li>• <b>التعلم القائم على المشاريع وحل المشكلات (PBL):</b> تطبيق المفاهيم النظرية في مشاريع تصميمية عملية وتحديات معمارية واقعية، مما ينمي مهارات التحليل، والتخطيط، واتخاذ القرارات الإبداعية.</li> <li>• <b>التعلم التعاوني والعمل الجماعي:</b> تفعيل العمل في مجموعات لتبادل الأفكار والخبرات، مما يعزز مهارات التواصل، القيادة، والعمل المشترك، ويقود إلى فهم أعمق للمفاهيم المعمارية عبر المناقشة.</li> </ul> |

- **التكنولوجيا والنمذجة الرقمية** :دمج برامج التصميم ثلاثي الأبعاد، والواقع الافتراضي، والأدوات الرقمية لإنشاء النماذج المعمارية وعرضها، مع توفير الموارد الإلكترونية لتعزيز التعلم الذاتي الرقمي.
- **التعلم بالممارسة والاندماج الميداني** : ربط الأكاديميا بالواقع من خلال الزيارات الميدانية للمواقع والمباني التاريخية، والمشاركة في ورش العمل اليدوية، والتدريب العملي في المكاتب الهندسية.
- **الاستقصاء والابتكار عبر العصف الذهني** :تحفيز الفضول المعماري بطرح الأسئلة والبحث المستقل، وتوليد الأفكار الابتكارية لحل المشكلات التصميمية وتنمية التفكير النقدي.

#### ١٠. طرائق التقييم

١. الاختبارات: وذلك من خلال اجراء الاختبارات اليومية والشهرية والفصلية
٢. تقييم الواجبات: وتتمثل بالواجبات البيتية والصفية المنتظمة التي يقوم بها الطالب خلال الفصل الدراسي
٣. تقييم العروض التقديمية وكتابة واعداد التقارير والبحوث
٤. تقييم المشاريع: اذ يتم تقييم المشاريع التصميم المعمارية والاطهار المعماري والرسم
٥. الالتزام بالواجبات والحضور في المحاضرات
٦. تقييم المشاركة: تقييم المشاركة في المناقشات الصفية المحاضرات والأنشطة اللاصفية وورش العمل، وتقييم العمل الجماعي.
٧. التقييم من خلال التدريب الصيفي والزيارات العلمية

#### ١١. الهيئة التدريسية

##### أعضاء هيئة التدريس

| الرتبة العلمية           |                | التخصص                    |     | المتطلبات/المهارات الخاصة (ان وجدت ) |  | اعداد الهيئة التدريسية |       |
|--------------------------|----------------|---------------------------|-----|--------------------------------------|--|------------------------|-------|
|                          |                | عام                       | خاص |                                      |  | ملاك                   | محاضر |
| أ.د. حمزة سلمان المعموري | هندسة العمارة  | تصميم حضري\ عمارة اسلامية |     |                                      |  | ملاك                   |       |
| أ.د. حسن عبد علي الكسبي  | هندسة العمارة  | تصميم حضري \ نظرية عمارة  |     |                                      |  | ملاك                   |       |
| أ.مؤيد منغر عبيد         | لغة إنكليزية   | طرائق تدريس لغة إنكليزيه  |     |                                      |  | ملاك                   |       |
| أ.د.محمد صلاح نصر        | هندسة مدنية    | مواد بناء                 |     |                                      |  | ملاك                   |       |
| أ.د. رشا مالك موسى       | هندسة العمارة  | تخطيط حضري                |     |                                      |  | ملاك                   |       |
| أ.د. أميرة جليل احمد     | هندسة العمارة  | تصميم حضري                |     |                                      |  | ملاك                   |       |
| أ.م.د. علي عمران لطيف    | هندسة العمارة  | تصميم حضري مستدام         |     |                                      |  | ملاك                   |       |
| أ.م.د. ايفان ماضي حمزة   | هندسة الحاسبات | تميز صورة                 |     |                                      |  | ملاك                   |       |
| أ.م.د.بيداء عبد الحسين   | هندسة مساحة    | تخطيط حضري واقليمي        |     |                                      |  | ملاك                   |       |
| أ.م. آلاء هادي عبيد      | هندسة العمارة  | تكنولوجيا عمارة           |     |                                      |  | ملاك                   |       |
| أ.م.د. حسام جبار عباس    | هندسة العمارة  | تصميم معماري              |     |                                      |  | ملاك                   |       |
| أ.م.د.علا عبد علي        | هندسة العمارة  | تصميم حضري                |     |                                      |  | ملاك                   |       |
| أ.م.د. محمود عامر محمود  | هندسة العمارة  | تصميم معماري              |     |                                      |  | ملاك                   |       |
| م.د. حارث عامر عبدالواحد | هندسة مدنية    | انشاءات                   |     |                                      |  | ملاك                   |       |
| م.د.زيادون نجاح مهدي     | هندسة العمارة  | تصميم حضري                |     |                                      |  | ملاك                   |       |

|                           |                |                                    |  |      |  |
|---------------------------|----------------|------------------------------------|--|------|--|
| أ.م. مها فواد محمد        | فنون تشكيلية   | رسم                                |  | ملاك |  |
| م.م. سراج جبار كاظم       | هندسة العمارة  | تصميم معماري                       |  | ملاك |  |
| م.م. رواء عبد مناف        | هندسة العمارة  | تصميم معماري                       |  | ملاك |  |
| م.م. سارة محمد جميل       | هندسة العمارة  | تصميم حضري                         |  | ملاك |  |
| م.م. فائق هاشم كريم       | هندسة العمارة  | تصميم معماري                       |  | ملاك |  |
| م.م. زينب رياض زينل       | تخطيط عمراني   | تخطيط حضري                         |  | ملاك |  |
| م.م. مصطفى علي عبد الهادي | هندسة الكهرباء | إلكترونيك واتصالاتك                |  | ملاك |  |
| م.م. بشائر محمود شاكر     | هندسة العمارة  | تصميم معماري                       |  | ملاك |  |
| م.م. ايلاف سليم عباس      | هندسة العمارة  | تصميم معماري                       |  | ملاك |  |
| م.م. سلام سمير            | هندسة العمارة  |                                    |  | ملاك |  |
| م.م. زهراء علاء عبد الحسن | هندسة العمارة  | تصميم معماري/<br>تكنولوجيا العمارة |  | ملاك |  |
| م.م. مريم هيثم علي        | هندسة العمارة  | تصميم حضري                         |  | ملاك |  |
| م.م. ابرار عبد الرضا      | هندسة العمارة  | تصميم معماري                       |  | ملاك |  |

| ١٢. التطوير المهني                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| توجيه أعضاء هيئة التدريس الجدد                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <p>١- التعريف برؤية ورسالة وأهداف القسم والهيكل التنظيمي والأنظمة الإدارية للقسم ومساعدتهم على بناء علاقات مهنية مع زملائهم ورؤسائهم.</p> <p>٢- تدريبهم على أساليب التدريس الفعالة وتقنيات العرض والتواصل مع الطلاب وتزويدهم بالأدوات والموارد اللازمة لتصميم المناهج الدراسية وتقييم أداء الطلاب وتشجيعهم على استخدام التقنيات التعليمية الحديثة</p> <p>٣- وجيهم حول كيفية إجراء البحوث العلمية وكتابة المقترحات البحثية.</p> <p>٤- تخصيص مرشدين أكاديميين من ذوي الخبرة لمساعدة أعضاء الهيئة التدريسية الجدد في التغلب على التحديات التي يواجهونها.</p> <p>٥- تقديم الدعم النفسي والمهني لهم لضمان تحقيق التوازن بين حياتهم المهنية والشخصية وإنشاء شبكة تواصل بين أعضاء هيئة التدريس الجدد لتبادل الخبرات والافكار.</p> <p>٦- تشجيعهم على المشاركة في ورش العمل والمؤتمرات والبرامج التدريبية لتطوير مهاراتهم ومعارفهم.</p> |
| التطوير المهني لأعضاء هيئة التدريس                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p>١- حث التدريسيين على المشاركة في المؤتمرات العالمية والمحلية والقاء ورش العمل والمحاضرات العلمية والندوات بالإضافة الى</p> <p>٢- نشر الابحاث العلمية في مستويات عالمية رصينة لتعزيز مكانتهم العلمية وتحسين قدراتهم الأكاديمية.</p> <p>٣- تشجيع أعضاء هيئة التدريس على التعلم المستمر وتطوير مهاراتهم الذاتية وتوفير فرص التدريب والتطوير المهني المختلفة.</p> <p>٤- التأكيد على أهمية الالتزام بأخلاقيات المهنة والمعايير الأكاديمية.</p> <p>٥- تحسين المهارات التدريسية من خلال تطوير أساليب التدريس الحديثة والفعالة واستخدام التقنيات التعليمية المبتكرة وتنمية مهارات التواصل والتفاعل مع الطلاب إضافة الى تصميم المناهج الدراسية وتقييم الطلاب.</p>                                                                                                                                                                    |

| ١٣. معيار القبول                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>يعتمد قبول الطالب في قسم هندسة العمارة وذلك اعتمادا على شروط ولوائح وزارة التعليم العالي والبحث العلمي من خلال الاعتماد على المعدل الطالب في مرحلة السادس الاعدادى كأسلوب تفاضلي بين معدلات خريجين الطلبة للالتحاق والقبول في الكلية اعتمادا على الأنظمة التالية:</p> <ul style="list-style-type: none"> <li>القبول المركزي للدراسة الصباحية</li> <li>القبول الموازي</li> </ul> |

| ١٤. أهم مصادر المعلومات عن البرنامج                                                                                                                                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• دليل كلية الهندسة جامعة بابل</li> <li>• الموقع الإلكتروني لكلية الهندسة جامعة بابل باللغتين الإنكليزية والعربية</li> <li>• الموقع الإلكتروني لجامعة بابل</li> <li>• الموقع الإلكتروني لوزارة التعليم العالي والبحث العلمي العراقية</li> </ul> |

| ١٥. خطة تطوير البرنامج                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>١- تشكيل لجان في القسم العلمي مهمتها متابعة البرنامج وإجراء المراجعة الشاملة للمناهج وما يطرا عليها من مستجدات وتحديث المناهج الدراسية بحيث تكون ملائمة مع متطلبات سوق العمل.</li> <li>٢- تطوير مهارات أعضاء هيئة التدريس من خلال التدريب المستمر وتشجيع البحث العلمي وتبادل الخبرات واستخدام أحدث الوسائل التعليمية المتاحة والاستفادة من الأساليب الحديثة الرقمية في التدريس.</li> <li>٣- تعزيز البيئة التعليمية من خلال توفير مختبرات وورش عمل مجهزة بأحدث التقنيات والمعدات اللازمة للتصميم المعماري وإنشاء مكتبة معمارية متخصصة وإنشاء بيئة إبداعية.</li> <li>٤- تعزيز التعاون مع سوق العمل والمجتمع عن طريق إقامة شراكات مع مكاتب هندسية وشركات مقاولات وتنظيم ورش عمل ومحاضرات يلقيها خبراء في مجال الهندسة المعمارية إضافة الى المشاركة في مشاريع مجتمعية</li> <li>٥- تطوير مهارات الطلاب من خلال تنمية مهارات التفكير النقدي والإبداعي ومهارات التواصل والعمل الجماعي وإدارة المشاريع</li> <li>٦- تطوير مهارات الطلاب من خلال تنمية مهارات التفكير النقدي والإبداعي وتنمية مهارات التواصل والعمل الجماعي وإدارة المشاريع</li> <li>٧- استبانة اراء الطلبة عند نهاية كل فصل دراسي حول البرنامج الدراسي</li> <li>٨- استبانة اراء أعضاء الهيئة التدريسية عن نهاية كل فصل دراسي حول افضل الطر لتطوير المقررات الدراسية وطرق التدريس المتبعة</li> </ol> |

## ١٦. مخطط مهارات البرنامج

| مخرجات التعلم المطلوبة من البرنامج |    |    |    |          |    |    |    |         |    |    |    |                     |                                 |            |                              |
|------------------------------------|----|----|----|----------|----|----|----|---------|----|----|----|---------------------|---------------------------------|------------|------------------------------|
| القيم                              |    |    |    | المهارات |    |    |    | المعرفة |    |    |    | اساسي أم<br>اختياري | اسم المقرر                      | رمز المقرر | السنة / المستوى              |
| 4ج                                 | 3ج | 2ج | 1ج | 4ب       | 3ب | 2ب | 1ب | 4أ      | 3أ | 2أ | 1أ |                     |                                 |            |                              |
|                                    |    | ✓  | ✓  |          |    | ✓  | ✓  |         |    | ✓  | ✓  | اساسي               | تصميم معماري   رسم معماري       | Arch1111   | المستوى الأول – الفصل الاول  |
| ✓                                  |    |    | ✓  |          |    | ✓  |    |         | ✓  |    |    | اساسي               | رسم يدوي                        | Arch1114   |                              |
|                                    |    | ✓  |    | ✓        |    |    |    |         |    |    | ✓  | اساسي               | مبادئ فن وعمارة                 | Arch1102   |                              |
|                                    |    |    | ✓  |          | ✓  |    |    |         |    | ✓  |    | اساسي               | رياضيات                         | Arch1103   |                              |
| ✓                                  |    |    |    |          | ✓  |    |    |         | ✓  |    |    | اساسي               | حاسوب                           | Arch1105   |                              |
| ✓                                  |    |    |    |          |    | ✓  |    |         |    |    | ✓  | اساسي               | اللغة العربية                   | UOBAB1102  |                              |
|                                    | ✓  |    |    |          |    | ✓  |    |         |    |    | ✓  | اساسي               | الديمقراطية وحقوق الانسان       | UOBAB1104  |                              |
|                                    |    | ✓  |    | ✓        |    |    |    |         |    |    | ✓  | اساسي               | مبادئ فن وعمارة II              | Arch1211   | المستوى الأول - الفصل الثاني |
| ✓                                  |    |    | ✓  |          | ✓  |    |    |         | ✓  |    |    | اساسي               | مبادئ الرسم بالحاسوب            | Arch1214   |                              |
|                                    |    |    | ✓  |          |    | ✓  |    |         |    | ✓  |    | اساسي               | رياضيات II                      | Arch1213   |                              |
| ✓                                  |    |    |    |          |    | ✓  |    | ✓       |    |    |    | اساسي               | اللغة الأنكليزية                | UOBABb1101 |                              |
|                                    |    |    | ✓  |          |    |    | ✓  |         |    | ✓  | ✓  | اساسي               | تركيب مباني                     | Arch1212   |                              |
|                                    |    | ✓  | ✓  |          |    | ✓  | ✓  |         |    | ✓  | ✓  | اساسي               | تصميم معماري II & رسم معماري II | Arch1216   |                              |
|                                    |    |    | ✓  |          |    |    | ✓  |         |    | ✓  | ✓  | اساسي               | تركيب مباني II                  | Arch2316   |                              |
|                                    | ✓  |    |    | ✓        |    |    |    | ✓       |    |    | ✓  | اساسي               | تاريخ عمارة                     | Arch2305   | المستوى الثاني - الفصل الاول |
| ✓                                  |    |    |    |          | ✓  |    |    |         | ✓  |    |    | اساسي               | حاسوب II                        | Arch2314   |                              |
|                                    | ✓  |    |    |          |    |    |    | ✓       |    |    |    | اساسي               | جرائم حزب البعث                 | UOBAB2301  |                              |
| ✓                                  |    | ✓  | ✓  | ✓        |    | ✓  | ✓  | ✓       |    |    | ✓  | اساسي               | تصميم معماري III                | Arch2311   |                              |
|                                    |    |    | ✓  |          |    |    | ✓  |         | ✓  | ✓  |    | اساسي               | رسم معماري III                  | Arch2312   |                              |
|                                    |    |    |    |          |    |    |    |         |    |    |    |                     |                                 |            |                              |

|   |   |   |   |   |   |   |   |   |   |   |   |       |                                              |           |                               |
|---|---|---|---|---|---|---|---|---|---|---|---|-------|----------------------------------------------|-----------|-------------------------------|
|   |   |   | ✓ |   |   | ✓ |   |   | ✓ |   |   | اساسي | رسم يدوي II                                  | Arch2313  |                               |
|   |   |   | ✓ |   |   |   | ✓ |   |   | ✓ | ✓ | اساسي | تركيب مباني III                              | Arch2414  | المستوى الثاني - الفصل الثاني |
| ✓ |   | ✓ | ✓ | ✓ |   | ✓ | ✓ | ✓ |   |   | ✓ | اساسي | تصميم معماري IV                              | Arch2411  |                               |
|   |   |   | ✓ |   |   |   | ✓ |   | ✓ | ✓ |   | اساسي | رسم معماري IV                                | Arch2412  |                               |
|   |   |   | ✓ |   |   | ✓ |   |   | ✓ |   |   | اساسي | رسم يدوي III                                 | Arch2413  |                               |
| ✓ |   |   |   |   | ✓ |   |   |   | ✓ |   |   | اساسي | مبادئ الرسم بالحاسوب II                      | Arch2415  |                               |
| ✓ |   |   |   |   |   | ✓ |   | ✓ |   |   |   | اساسي | لغة أنكليزية II                              | UOBAB2302 |                               |
| ✓ |   |   |   |   |   | ✓ |   | ✓ |   |   |   | اساسي | اللغة العربية II                             | UOBAB2001 |                               |
| ✓ |   | ✓ |   | ✓ |   |   |   |   |   |   | ✓ | اساسي | منطق ومنهجية تصميم                           | Arch2406  |                               |
|   |   |   |   |   |   | ✓ | ✓ | ✓ |   |   | ✓ | اساسي | تصميم معماري V                               | Arch3511  | المستوى الثالث - الفصل الاول  |
|   |   |   | ✓ |   |   |   | ✓ |   |   | ✓ | ✓ | اساسي | تركيب مباني IV                               | Arch3512  |                               |
|   |   |   | ✓ |   | ✓ |   |   |   |   | ✓ |   | اساسي | انشاءات I                                    | Arch3513  |                               |
|   | ✓ |   |   |   |   | ✓ |   | ✓ |   |   | ✓ | اساسي | تاريخ عمارة II                               | Arch3514  |                               |
|   | ✓ |   |   | ✓ |   |   |   | ✓ |   |   | ✓ | اساسي | تخطيط حضري                                   | Arch3515  |                               |
|   |   |   | ✓ |   |   |   | ✓ | ✓ |   |   | ✓ | اساسي | خدمات صحية للمباني                           | Arch3516  |                               |
| ✓ | ✓ | ✓ | ✓ | ✓ |   | ✓ | ✓ | ✓ |   |   | ✓ | اساسي | تصميم معماري VI                              | Arch3611  |                               |
| ✓ |   |   |   |   | ✓ |   |   | ✓ | ✓ |   |   | اساسي | الإدارة والنمذجة والتطبيق في البيئات الحضرية | Arch3612  | المستوى الثالث - الفصل الثاني |
|   |   |   | ✓ |   | ✓ |   |   |   |   | ✓ |   | اساسي | انشاءات II                                   | Arch3613  |                               |
| ✓ |   |   |   |   | ✓ |   |   | ✓ |   |   | ✓ | اساسي | أساليب حفاظ                                  | Arch3614  |                               |
|   |   |   | ✓ |   |   |   | ✓ | ✓ |   | ✓ |   | اساسي | خدمات الانارة                                | Arch3615  |                               |
|   |   |   |   |   |   |   |   | ✓ |   | ✓ |   | اساسي | خدمات التكيف                                 | Arch3616  |                               |
| ✓ | ✓ | ✓ | ✓ | ✓ |   | ✓ | ✓ | ✓ |   |   | ✓ | اساسي | تصميم معماري VII                             | Arch4711  | المستوى الرابع - الفصل الاول  |
|   |   | ✓ | ✓ | ✓ |   | ✓ |   |   |   |   | ✓ | اساسي | تصميم فضاءات داخلية                          | Arch4702  |                               |

|   |   |   |   |   |   |   |   |   |   |   |   |       |                       |           |                               |
|---|---|---|---|---|---|---|---|---|---|---|---|-------|-----------------------|-----------|-------------------------------|
|   |   |   |   | ✓ |   |   | ✓ |   |   | ✓ | ✓ | اساسي | تقنيات بناء متقدمة    | Arch4703  |                               |
|   |   | ✓ |   | ✓ |   |   |   |   |   |   | ✓ | اساسي | نظريات العمارة        | Arch4704  |                               |
|   | ✓ |   |   | ✓ |   |   |   | ✓ |   |   | ✓ | اساسي | اسكان                 | Arch4705  |                               |
|   |   |   | ✓ |   | ✓ |   |   |   |   | ✓ |   | اساسي | انشاءات III           | Arch4706  |                               |
| ✓ | ✓ | ✓ | ✓ | ✓ |   | ✓ | ✓ | ✓ |   |   | ✓ | اساسي | تصميم معماري VIII     | Arch4811  | المستوى الرابع - الفصل الثاني |
|   | ✓ |   | ✓ | ✓ |   | ✓ |   | ✓ |   |   | ✓ | اساسي | تصميم فضاءات خارجية   | Arch4802  |                               |
|   |   |   | ✓ |   | ✓ |   | ✓ |   |   | ✓ |   | اساسي | خدمات مساحة           | Arch4803  |                               |
|   | ✓ |   |   |   | ✓ |   |   | ✓ |   | ✓ |   | اساسي | عمارة ومناخ           | Arch4804  |                               |
|   | ✓ |   |   | ✓ |   |   |   | ✓ |   |   | ✓ | اساسي | نظريات التصميم الحضري | Arch4805  |                               |
|   |   |   | ✓ |   | ✓ |   |   | ✓ |   | ✓ |   | اساسي | الصوتيات              | Arch4806  |                               |
| ✓ | ✓ | ✓ | ✓ | ✓ |   |   | ✓ | ✓ |   |   | ✓ | اساسي | تصميم حضري IX         | Arch5911  | المستوى الخامس - الفصل الاول  |
| ✓ | ✓ |   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | اساسي | أطروحة I              | 5912Arch  |                               |
|   |   | ✓ |   | ✓ |   |   |   |   |   |   | ✓ | اساسي | نظريات تصميم معماري   | Arch5903  |                               |
|   | ✓ |   |   | ✓ |   |   |   | ✓ |   |   | ✓ | اساسي | عمارة عربية معاصرة    | Arch5904  |                               |
|   | ✓ |   |   | ✓ |   |   |   | ✓ |   |   | ✓ | اساسي | عمارة عربية اسلامية   | Arch5905  |                               |
|   |   | ✓ |   | ✓ |   |   |   |   |   |   | ✓ | اساسي | فلسفة عمارة           | Arch5906  |                               |
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | اساسي | أطروحة II             | Arch51011 |                               |
|   |   |   | ✓ |   | ✓ |   |   | ✓ |   | ✓ |   | اساسي | تخمين ومواصفات        | Arch51002 |                               |
| ✓ |   |   | ✓ |   |   |   | ✓ |   |   |   | ✓ | اساسي | ممارسة مهنة           | Arch51003 |                               |
|   | ✓ |   |   | ✓ |   |   |   | ✓ |   |   | ✓ | اساسي | عمارة عراقية معاصرة   | Arch51004 |                               |
|   |   | ✓ |   | ✓ |   |   |   |   |   |   | ✓ | اساسي | نظريات النقد المعماري | Arch51005 |                               |

● يرجى وضع اشارة في المربعات المقابلة لمخرجات التعلم الفردية من البرنامج الخاضعة للتقييم

المستوى الأول – الفصل الأول  
MODULE DESCRIPTION FORM  
نموذج وصف المادة الدراسية

Module Information  
معلومات المادة الدراسية

|                                    |                                      |                          |                               |                                                                                                                                                                                                                                                     |       |
|------------------------------------|--------------------------------------|--------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Module Title                       | Principles of Art and Architecture I |                          |                               | Module Delivery                                                                                                                                                                                                                                     |       |
| Module Type                        | S                                    |                          |                               | <input checked="" type="checkbox"/> Theory<br><input checked="" type="checkbox"/> Lecture<br><input type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial<br><input type="checkbox"/> Practical<br><input checked="" type="checkbox"/> Seminar |       |
| Module Code                        | Arch1102                             |                          |                               |                                                                                                                                                                                                                                                     |       |
| ECTS Credits                       | 2                                    |                          |                               |                                                                                                                                                                                                                                                     |       |
| SWL (hr/sem)                       | 50                                   |                          |                               |                                                                                                                                                                                                                                                     |       |
| Module Level                       |                                      | UGI                      | Semester of Delivery          |                                                                                                                                                                                                                                                     | 1     |
| Administering Department           |                                      | Architecture Engineering | College                       | Engineering                                                                                                                                                                                                                                         |       |
| Module Leader                      | Name: DR.HUSSAM JABBAR               |                          | e-mail                        | E-mail<br>Eng.hussam.jabbar@uobabylon.end.iq                                                                                                                                                                                                        |       |
| Module Leader’s Acad. Title        |                                      | Professor                | Module Leader’s Qualification |                                                                                                                                                                                                                                                     | Ph.D. |
| Module Tutor                       | Name (if available)                  |                          | e-mail                        | E-mail<br>Eng.hussam.jabbar@uobabylon.end.iq                                                                                                                                                                                                        |       |
| Peer Reviewer Name                 |                                      | Name                     | e-mail                        | E-mail<br>Eng.hussam.jabbar@uobabylon.end.iq                                                                                                                                                                                                        |       |
| Scientific Committee Approval Date |                                      | 01/06/2023               | Version Number                |                                                                                                                                                                                                                                                     | 1.0   |

Relation with other Modules  
العلاقة مع المواد الدراسية الأخرى

|                      |      |          |  |
|----------------------|------|----------|--|
| Prerequisite module  | None | Semester |  |
| Co-requisites module | None | Semester |  |

Module Aims, Learning Outcomes and Indicative Contents  
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                      | The course aims to develop the capabilities of analysis and criticism by establishing the necessary principles and enhancing the study of the concepts of space, mass and form from various aspects, and reviewing the most important critical proposals that dealt with architecture as a hybrid product of science and art and deepening the student's sense at the entrance to his academic life of design elements such as line, direction, color and texture ..... etc. The course also aims to explain in detail the artistic trends in the nineteenth and twentieth centuries and link them with architecture so that the influence of each of these artistic movements on architecture becomes clear. On the contrary, the classical approach began with Greece and Romanism and ended with the new modernity approach in the nineties The last century and the beginning of the second millennium, passing through many artistic movements, including romanticism, impressionism, brutalism, cubism, expressionism, performance, surrealism, constructivism, Russian, and Steele |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية | Acquaint the student with art and architecture<br>To familiarize the student with the capabilities of scientific criticism<br>Know the basics of architectural design<br>Identify the elements of architectural design<br>Learn the principles of architectural design                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Indicative Contents<br>المحتويات الإرشادية                | Developing the capabilities of the student's artistic (3hrs)<br>architectural creative thinking by developing his architectural information (4hrs)<br>developing his drawing capabilities (4hrs)<br>building his architectural memory by viewing architectural products with pictures and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

|                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                            | <p>videos. ( 3hrs)</p> <p>The student's memory is also developed by feeding it with the biographies of international architects and architecture masters (3hrs)</p>                                                                                                                                                                                                                                                                              |
| <p>Learning and Teaching Strategies</p> <p>استراتيجيات التعلم والتعليم</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Strategies                                                                 | <p>The strategies of the curriculum are divided into first: distant goals such as building a generation of architects capable of innovation that has high architectural taste and intermediate goals through building contemporary architectural thought that is able to combine contemporary, preservation and close goals through developing the student's architectural talents and providing them with intellectual and technical tools.</p> |

| <p>Student Workload (SWL)</p> <p>الحمل الدراسي للطالب</p> |    |                                          |     |
|-----------------------------------------------------------|----|------------------------------------------|-----|
| Structured SWL (h/sem)                                    | 33 | Structured SWL (h/w)                     | 2.2 |
| الحمل الدراسي المنتظم للطالب خلال الفصل                   |    | الحمل الدراسي المنتظم للطالب أسبوعيا     |     |
| Unstructured SWL (h/sem)                                  | 17 | Unstructured SWL (h/w)                   | 1.2 |
| الحمل الدراسي غير المنتظم للطالب خلال الفصل               |    | الحمل الدراسي غير المنتظم للطالب أسبوعيا |     |
| Total SWL (h/sem)                                         | 50 |                                          |     |
| الحمل الدراسي الكلي للطالب خلال الفصل                     |    |                                          |     |

| <p>Module Evaluation</p> <p>تقييم المادة الدراسية</p> |                 |             |                  |          |                           |
|-------------------------------------------------------|-----------------|-------------|------------------|----------|---------------------------|
|                                                       |                 | Time/Number | Weight (Marks)   | Week Due | Relevant Learning Outcome |
| Formative assessment                                  | Quizzes         | 1           | 5%               | 3.8      |                           |
|                                                       | Assignments     | 1           | 5%               | 13.15    |                           |
|                                                       | Projects / Lab. |             |                  |          |                           |
|                                                       | Report          | 10%         | 10%              | 10-15    |                           |
| Summative assessment                                  | Midterm Exam    | 2 hr        | 30%              | 6,11     |                           |
|                                                       | Final Exam      | 3hr         | 50% (50)         | 16       | All                       |
| Total assessment                                      |                 |             | 100% (100 Marks) |          |                           |

| <p>Delivery Plan (Weekly Syllabus)</p> <p>المنهاج الاسبوعي النظري</p> |                                                                                                                                                              |
|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                       | Material Covered Part 1                                                                                                                                      |
| Week 1                                                                | The ability of analysis and criticism                                                                                                                        |
| Week 2                                                                | Perception of the architecture in the light of the intellectual development of its critics: Lewis was, Colin Lane, Alvaralto Broadbent, Zvi, Saranan, Ruskin |
| Week 3                                                                | Architectural features and acquaintances in the light of the proposals Fterovios and Alberti and Allsopp, etc. ..                                            |
| Week 4                                                                | Target architecture in the light of the proposals Lewis was, Kirroyon, Antundiades .... etc.                                                                 |
| Week 5                                                                | L Principles of Design: congruence and similarity and difference of proportionality and balance of unity and homogeneity                                     |
| Week 6                                                                | Design elements:Line, direction, shape, size, texture and color and optical value                                                                            |
| Week 7                                                                | Figure kinds of shapes, production methods Figure) Space (types of spaces)                                                                                   |
|                                                                       | Explanation of the first architectural trends (in theory and practice)                                                                                       |
| Week 8                                                                | Organic trend in architecture and the trend in the expressionist architecture                                                                                |
| Week 9                                                                | Organic trend in architecture and the trend in the expressionist architecture – supplement                                                                   |
| Week 10                                                               | General explanation of the architectural trends in the nineteenth and twentieth and its relationship to architecture                                         |
| Week 11                                                               | Being in the meaning and Architecture                                                                                                                        |
| Week 12                                                               | analysis marks (semiotics)                                                                                                                                   |
| Week 13                                                               | Experimental research of aesthetics and criticism                                                                                                            |
| Week 14                                                               | Two Port Networks, Admittance, Impedance, Hybrid, and Transmittance Parameters                                                                               |

Delivery Plan (Weekly Lab. Syllabus)  
المنهاج الاسبوعي للمختبر

Material Covered

Learning and Teaching Resources  
مصادر التعلم والتدريس

|                   | Text                                                                                                                                                                                                                              | Available in the Library? |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Required Texts    | مبادئ الفن والعمارة                                                                                                                                                                                                               | Yes                       |
| Recommended Texts | عصر اساطين العمارة<br>لمحات من تاريخ العمارة<br>التعقيد والتناقض بالعمارة<br>العمارة وتفسيرها                                                                                                                                     | No                        |
| Websites          | <a href="https://www.academia.edu/3882812/%D9%86%D8%B8%D8%B1%D9%8A%D8%A9%D8%A7%D9%84%D8%B9%D9%85%D8%A7%D8%B1%D8%A9">https://www.academia.edu/3882812/%D9%86%D8%B8%D8%B1%D9%8A%D8%A9%D8%A7%D9%84%D8%B9%D9%85%D8%A7%D8%B1%D8%A9</a> |                           |

Grading Scheme  
مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A – Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                             | C – Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                             | E – Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 – 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |
|                             |                  |                     |           |                                       |

Module Information  
معلومات المادة الدراسية

|                                    |                         |                          |                               |                                                                                                                                                                                                      |       |
|------------------------------------|-------------------------|--------------------------|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Module Title                       | Mathematics I           |                          |                               | Module Delivery                                                                                                                                                                                      |       |
| Module Type                        | B                       |                          |                               | <input checked="" type="checkbox"/> Theory<br>Lecture<br><input type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial<br><input type="checkbox"/> Practical<br><input type="checkbox"/> Seminar |       |
| Module Code                        | Arch1103                |                          |                               |                                                                                                                                                                                                      |       |
| ECTS Credits                       | 2                       |                          |                               |                                                                                                                                                                                                      |       |
| SWL (hr/sem)                       | 50                      |                          |                               |                                                                                                                                                                                                      |       |
| Module Level                       |                         | UGI                      | Semester of Delivery          |                                                                                                                                                                                                      |       |
| Administering Department           |                         | Architecture Engineering | College                       | University of Babylon                                                                                                                                                                                |       |
| Module Leader                      | Fatimah Fahem Alkhafaji |                          | e-mail                        | mat.fatimah.fahem@uobabylon.edu.iq                                                                                                                                                                   |       |
| Module Leader's Acad. Title        |                         | Assist.Professor         | Module Leader's Qualification |                                                                                                                                                                                                      | Ph.D. |
| Module Tutor                       | Name (if available)     |                          | e-mail                        | E-mail                                                                                                                                                                                               |       |
| Peer Reviewer Name                 |                         | Name                     | e-mail                        | E-mail                                                                                                                                                                                               |       |
| Scientific Committee Approval Date |                         | 01/06/2023               | Version Number                |                                                                                                                                                                                                      | 1.0   |

Relation with other Modules  
العلاقة مع المواد الدراسية الأخرى

|                      |      |          |  |
|----------------------|------|----------|--|
| Prerequisite module  | None | Semester |  |
| Co-requisites module | None | Semester |  |

### Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                      | It is to give the student a general idea of mathematics as basic principles for a student in the College of Engineering, with the addition of some engineering applications that benefit the architecture student in his advanced stages.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية | <ol style="list-style-type: none"> <li>1. Studying the Cartesian axes and the basics of analytical geometry (.</li> <li>2. Learn a set of ways to draw functions using different techniques.</li> <li>3. Using the concept of purpose, approximation, and approximation in consolidating and understanding the concept of mathematical differentiation.</li> <li>4. Using the concept of purpose to explain the concept of differentiation and derivatives.</li> <li>5. Application of quantitative and numerical methods for the purpose of solving engineering problem.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Indicative Contents<br>المحتويات الإرشادية                | <ul style="list-style-type: none"> <li>• Integral Calculus (8hr)<br/>Idea of integral, including elementary treatment of the definite integral as a limit using rectangles. Fundamental theorem of calculus. Methods of integration including integration by substitution, by parts and with partial fractions. Relation of integrals with areas. Trapezium and Simpson's rules for numerical integration.</li> <li>• Differential Equations (10hr)<br/>First order ordinary differential equations by (a) separation and (b) integrating factor. Second order ordinary differential equations with constant coefficients and simple right-hand sides. (Complex roots included, but no resonance problems).</li> <li>• Vectors (4hr)<br/>Vector geometry in <math>R^2</math> and <math>R^3</math> vector properties and manipulation. Unit vectors, position vectors, Cartesian coordinates. Scalar product and vector product.</li> <li>• Matrices and linear equations (4hr)<br/>Matrix properties, addition, multiplication. Inverse matrices, determinants. Linear mappings in <math>R^2</math> (rotation, reflection). Systems of linear equations, Gaussian elimination and row operations.</li> <li>• Lines, planes and spheres (4hr)<br/>Implicit and parametric equations of lines. Implicit equations of planes. Intersections, distances between points, lines and planes. Equations of spheres, tangent planes. Linear dependence and independence, collinear and coplanar vectors.</li> </ul> |

### Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

|            |                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategies | <ul style="list-style-type: none"> <li>• The usual theoretical presentation method using the writing board and depending on the method (how and why) of the subject and according to the curriculum of the subject.</li> <li>• Theoretical presentation method using the (data show) device, depending on the method (how and why) of the subject and according to the curriculum of the subject.</li> </ul> |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Student Workload (SWL)

الحمل الدراسي للطالب

|                                                                         |    |                                                                     |     |
|-------------------------------------------------------------------------|----|---------------------------------------------------------------------|-----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطالب خلال الفصل       | 33 | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطالب أسبوعياً       | 2.2 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطالب خلال الفصل | 17 | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطالب أسبوعياً | 1.2 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطالب خلال الفصل              | 50 |                                                                     |     |

### Module Evaluation

تقييم المادة الدراسية

|                      |                 | Time/Number | Weight (Marks)   | Week Due   | Relevant Learning Outcome |
|----------------------|-----------------|-------------|------------------|------------|---------------------------|
| Formative assessment | Quizzes         | .5          | 10% (5)          | 5, 10      | LO #1, 2, 10 and 11       |
|                      | Assignments     | 2           | 10% (5)          | 2, 12      | LO # 3, 4, 6 and 7        |
|                      | Projects / Lab. | 1           | 10% (5)          | Continuous |                           |
|                      | Report          | 1           | 10% (5)          | 13         | LO # 5, 8 and 10          |
| Summative assessment | Midterm Exam    | 2 hr        | 10% (30)         | 7          | LO # 1-7                  |
|                      | Final Exam      | 3hr         | 50% (50)         | 16         | All                       |
| Total assessment     |                 |             | 100% (100 Marks) |            |                           |

### Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

| Week    | Material Covered                                                                                                                                                                                              |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Week 1  | General introduction of numbers system and absolute values part1                                                                                                                                              |
| Week 2  | General introduction of numbers system and absolute values part1                                                                                                                                              |
| Week 3  | Definition of function and determination of domain and range                                                                                                                                                  |
| Week 4  | Trigonometric function and its inverse ( graph, domain and range)                                                                                                                                             |
| Week 5  | Trigonometric function and its inverse ( graph, domain and range)                                                                                                                                             |
| Week 6  | Derivatives and its application in normal and trigonometric function and its inverses and using of derivatives in applications like determination of approximate values an local maximum and minimum points . |
| Week 7  | Derivatives and its application in normal and trigonometric function and its inverses and using of derivatives in applications like determination of approximate values an local maximum and minimum points . |
| Week 8  | Derivatives and its application in normal and trigonometric function and its inverses and using of derivatives in applications like determination of approximate values an local maximum and minimum points . |
| Week 9  | Derivatives and its application in normal and trigonometric function and its inverses and using of derivatives in applications like determination of approximate values an local maximum and minimum points . |
| Week 10 | Derivatives and its application in normal and trigonometric function and its inverses and using of derivatives in applications like determination of approximate values an local maximum and minimum points . |
| Week 11 | Limits                                                                                                                                                                                                        |
| Week 12 | Limits                                                                                                                                                                                                        |
| Week 13 | Graph of functions                                                                                                                                                                                            |
| Week 14 | Graph of functions                                                                                                                                                                                            |
| Week 15 | Overview                                                                                                                                                                                                      |

### Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

### Learning and Teaching Resources

مصادر التعلم والتدريس

|                   | Text                                                                                                                                               | Available in the Library? |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Required Texts    | Calculus, Thomas, Pearson Education 2005                                                                                                           | Yes                       |
| Recommended Texts | <ul style="list-style-type: none"> <li>Calculus (Haward Anton)</li> <li>Advanced Mathematics for Engineering Studies (Riad Ahmed Ezzat)</li> </ul> |                           |
| Websites          | Websites and websites discreet .<br>Library locations in some international universities                                                           |                           |

### Grading Scheme

مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A – Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                             | C – Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                             | E – Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 – 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |
|                             |                  |                     |           |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

### Module Information

معلومات المادة الدراسية

|                                    |                     |                          |                               |                                                                                                                                                                                                                                                                |       |
|------------------------------------|---------------------|--------------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Module Title                       | Computer I          |                          |                               | Module Delivery                                                                                                                                                                                                                                                |       |
| Module Type                        | <u>B</u>            |                          |                               | <input checked="" type="checkbox"/> Theory<br><input checked="" type="checkbox"/> Lecture<br><input checked="" type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial<br><input checked="" type="checkbox"/> Practical<br><input type="checkbox"/> Seminar |       |
| Module Code                        | Arch1114            |                          |                               |                                                                                                                                                                                                                                                                |       |
| ECTS Credits                       | <u>3</u>            |                          |                               |                                                                                                                                                                                                                                                                |       |
| SWL (hr/sem)                       | <u>75</u>           |                          |                               |                                                                                                                                                                                                                                                                |       |
| Module Level                       |                     | UGI                      | Semester of Delivery          |                                                                                                                                                                                                                                                                | 1     |
| Administering Department           |                     | Architecture Engineering | College                       | University of Babylon                                                                                                                                                                                                                                          |       |
| Module Leader                      | Dr.evan madhy hamza |                          | e-mail                        | Eng.evan.rubae@uobabylon.edu.iq                                                                                                                                                                                                                                |       |
| Module Leader’s Acad. Title        |                     | Professor                | Module Leader’s Qualification |                                                                                                                                                                                                                                                                | Ph.D. |
| Module Tutor                       | Name (if available) |                          | e-mail                        | E-mail                                                                                                                                                                                                                                                         |       |
| Peer Reviewer Name                 |                     | Name                     | e-mail                        | E-mail                                                                                                                                                                                                                                                         |       |
| Scientific Committee Approval Date |                     | 01/06/2023               | Version Number                |                                                                                                                                                                                                                                                                | 1.0   |

### Relation with other Modules

العلاقة مع المواد الدراسية الأخرى

|                      |      |          |  |
|----------------------|------|----------|--|
| Prerequisite module  | None | Semester |  |
| Co-requisites module | None | Semester |  |

### Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

|                                      |                                                                                                                                                                                                                                                                          |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية | The student, after completing the academic year, is able to:<br>1. Introducing students to generations and components of computers<br>2. Familiarize students with the Windows 7 operating system<br>3. Dealing with the Ward system with all its available capabilities |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                           | 4. How to deal with the Excel system - Developing the student's ability to use the Excel program and the method of using equations in Excel<br>5. Dealing with charts<br>6. Introducing the PowerPoint program and identifying its capabilities<br>7. Introducing the student to the Photoshop program and how to deal with it<br>8. Introducing students to the Internet and how to deal with it and search for it.                                            |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية | The student should be able to deal with the Excel system in terms of mathematical operations and equations, how to make presentations in the Power Point system, and knowledge of the calculator and its operation                                                                                                                                                                                                                                              |
| Indicative Contents<br>المحتويات الإرشادية                | 1- The student should be familiar with the calculator and its components (10hu)<br>2- To be interested in mathematical operations and electronic tables through his knowledge of the Excel system (10hu)<br>3- To have knowledge of the PowerPoint system to be able to do research and how to display it on different display screens (10hu)<br>4- Knowledge of Photoshop is important for the student in many fields, including architectural rendering (7hu) |

#### Learning and Teaching Strategies

##### استراتيجيات التعلم والتعليم

|            |                                                                                                                                                                                                                               |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategies | 1- Conducting research and reports on Excel and using the most important equations and applying them in several systems<br>2- Creating reports and presenting them in a Power Point manner<br>3- Make designs using Photoshop |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### Student Workload (SWL)

##### الحمل الدراسي للطالب

|                                                                         |     |                                                                     |     |
|-------------------------------------------------------------------------|-----|---------------------------------------------------------------------|-----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطالب خلال الفصل       | 63  | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطالب أسبوعياً       | 4.2 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطالب خلال الفصل | 37  | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطالب أسبوعياً | 2.4 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطالب خلال الفصل              | 100 |                                                                     |     |

#### Module Evaluation

##### تقييم المادة الدراسية

|                      |                 | Time/Number | Weight (Marks)   | Week Due | Relevant Learning Outcome |
|----------------------|-----------------|-------------|------------------|----------|---------------------------|
| Formative assessment | Quizzes         | 2           | 10% (10)         | 5, 10    | LO #1, 2, 10 and 11       |
|                      | Assignments     |             |                  |          |                           |
|                      | Projects / Lab. |             |                  |          |                           |
|                      | Report          | 1           | 10% (10)         | 13       | LO # 5, 8 and 10          |
| Summative assessment | Midterm Exam    | 2 hr        | 30% (30)         | 7        | LO # 1-7                  |
|                      | Final Exam      | 2hr         | 50% (50)         | 16       | All                       |
| Total assessment     |                 |             | 100% (100 Marks) |          |                           |

#### Delivery Plan (Weekly Lab. Syllabus)

##### المنهاج الأسبوعي للمختبر

|        | Material Covered                                                           |
|--------|----------------------------------------------------------------------------|
| Week 1 | Subject                                                                    |
| Week 2 | Definition of the computer, its components, types and methods of operation |
| Week 3 | Personal computer, workstation, minicomputer, mainframe and supercomputer  |
| Week 4 | Tower model, desktop model and notebook computer                           |
| Week 5 | Explanation system ms-dos                                                  |

|         |                                                                             |
|---------|-----------------------------------------------------------------------------|
| Week 6  | Explanation the order of system ms-dos( cd, dir,copy,del,edit,move,ren,cls) |
| Week 7  | definition of the file and type                                             |
| Week 8  | Examination                                                                 |
| Week 9  | The basic functions of the operating system                                 |
| Week 10 | The most important characteristics of Windows 7                             |
| Week 11 | Some common types of operating systems.                                     |
| Week 12 | Features a word processor program                                           |
| Week 13 | Explanation the list of insert(picture,shape,table,chart)                   |
| Week 14 | Explanation file (save,save as,open,new,print,exit)                         |
| Week 15 | Explanation page layout                                                     |

### Delivery Plan (Weekly Syllabus)

المناهج الاسبوعي النظري

|                  |
|------------------|
| Material Covered |
|------------------|

### Learning and Teaching Resources

مصادر التعلم والتدريس

|                   | Text                                                            | Available in the Library? |
|-------------------|-----------------------------------------------------------------|---------------------------|
| Required Texts    | Data and information technology<br>Introduction to the computer | Yes                       |
| Recommended Texts |                                                                 | No                        |
| Websites          |                                                                 |                           |

### Grading Scheme

مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A – Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                             | C – Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                             | E – Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 – 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

### Module Information

معلومات المادة الدراسية

| Module Title | Arabic language | Module Delivery                                                                                                                                                                                                 |
|--------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Type  | B               | <input checked="" type="checkbox"/> Theory<br>Lecture<br><input type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial<br><input checked="" type="checkbox"/> Practical<br><input type="checkbox"/> Seminar |
| Module Code  | UOBAB1102       |                                                                                                                                                                                                                 |
| ECTS Credits | 2               |                                                                                                                                                                                                                 |
| SWL (hr/sem) | 50              |                                                                                                                                                                                                                 |
| Module Level | UG I            | Semester of Delivery                                                                                                                                                                                            |
|              |                 | 1                                                                                                                                                                                                               |

|                                    |                          |                               |                       |
|------------------------------------|--------------------------|-------------------------------|-----------------------|
| Administering Department           | Architecture Engineering | College                       | University of Babylon |
| Module Leader                      | Ashref mana farhood      | e-mail                        | ashrefmana@gmail.com  |
| Module Leader's Acad. Title        | Professor                | Module Leader's Qualification | Ph.D.                 |
| Module Tutor                       | Name (if available)      | e-mail                        | E-mail                |
| Peer Reviewer Name                 | Name                     | e-mail                        | E-mail                |
| Scientific Committee Approval Date | 01/06/2023               | Version Number                | 1.0                   |

| Relation with other Modules<br>العلاقة مع المواد الدراسية الأخرى |      |          |  |
|------------------------------------------------------------------|------|----------|--|
| Prerequisite module                                              | None | Semester |  |
| Co-requisites module                                             | None | Semester |  |

| Module Aims, Learning Outcomes and Indicative Contents<br>أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                                                                               | لطلبة وتمكينهم من التعبير عن أفكارهم أن الهدف من تدريس مادة اللغة العربية في هذا القسم هو الكفاءة اللغوية الغلط واللون العامي والاعجمي بآبسط الطرق . فاللغة هي أداة ومشاريعهم بلغه عربية فصيحة واضحة خاليه من أفراد المجتمع ، ومتى تمكن الانسان من لغته استطاع الوصول الى أذهان الآخرين بحيث الايصال الاولى بين وان ذلك يؤدي الى تحقيق التوازن المفترض في ثقافته . يسهل تعامله معهم ويتمكن من تحقيق هدفه في العمل هذ نوعاً من التعادل بين مناهج المادة العلمية ووسيله ايصالها او التعبير عنها وتتضمن الطلبة فهو يضمن الاغلاط اللغويه الشائعه ، المحاضرات تدريس ماياتي : قواعد اللغة العربية ، وقواعد الاملاء ، ومعالجه بعض _ فضلا عن دراسته بعض النصوص الادبيه والقرانيه                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية                                                          | التعرف إلى مستويات نظام اللغة العربية.<br>معرفة القواعد النحوية والصرفية.<br>وصف المناهج النقدية والظواهر الأدبية.<br>التعريف بأبرز المصنفات اللغوية والأدبية.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Indicative Contents<br>المحتويات الإرشادية                                                                         | المهارات العملية أو المهنية:<br>قراءة النصوص الأدبية وكتابتها وفق المعايير النحوية والصرفية. (1 ساعة)<br>تقطيع الشعر العربي وفقاً للبحور الشعرية في علم العروض. (1 ساعة)<br>تدقيق النصوص الأدبية وتصويب الأخطاء الواردة فيها. (1 ساعة)<br>الكتابة الإبداعية التي تعبر عن الذات وقضايا المجتمع. (1 ساعة)<br>التعبير الشفوي وفن الإلقاء في الميدان المهني والمناسبات العامة. (1 ساعة)<br>توظيف أدوات البحث العلمي في كتابة الأبحاث العلمية. (1 ساعة)<br>استخدام المعاجم اللغوية.<br><br>المهارات المنقولة/ العامة:<br>ممارسة الكتابة والكلام باللغة العربية الفصيحة. (1 ساعة)<br>كتابة المقالات الأدبية بلغة سليمة. (1 ساعة)<br>تنويع مصادر التعلم ووسائل التقويم. (1 ساعة)<br>مواجهة المشاكل التي تواجهه في مهنته وحلها. (1 ساعة)<br>التكيف مع وظائف بديلة عن الوظيفة التي يقتضيها التخصص. (1 ساعة)<br><br>مهارات الاتصال، وتقنية المعلومات:<br>الاتصال والتواصل مع الآخرين. (1 ساعة)<br>تعزيز المحتوى العربي على الشبكة العنكبوتية. (1 ساعة)<br>التعلم الإلكتروني واستخدام الحاسوب في التعليم. (1 ساعة)<br>تعزيز الثقة بالنفس والجرأة والفصاحة. (1 ساعة)<br>المنافسة والتميز في سوق العمل. (1 ساعة) |

| Learning and Teaching Strategies<br>استراتيجيات التعلم والتعليم |                                                                                                                                                                                                            |
|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategies                                                      | إن اللغة العربية لغة عريقة وقديمة، بالإضافة إلى ذلك فهي لغة القرآن الكريم، والتي يجب على جميع المسلمين إتقانها.<br>تحافظ اللغة العربية على الإرث الثقافي والأدبي الكبير التي تركه الأديباء والعلماء العرب. |

تساعد اللغة العربية الطالب على التعبير عن نفسه بشكل صحيح وأسلوب سليم، وذلك نظرا لأن التلاميذ من خلالها يتعلمون المفاهيم والمصطلحات ويستوعبون، ومن ثم يقومون باستخدام هذه المصطلحات للتعبير عن أفكارهم. تلعب اللغة العربية في تزويد الطالب بعدد كبير من المفردات الأمر الذي يجعله يستخدم اللغة بكل يسر وسهولة وخاصة في حال رغب في كتابة الشعر والأدب. هذه كانت أبرز طرق تدريس اللغة العربية والتيمين خلالها يتم تعليم الطلاب اللغة العربية بشكل سليم ليلعبوا دورهم في الحفاظ على اللغة العربية وتطويرها، ودفعها إلى الأمام.

#### Student Workload (SWL)

الحمل الدراسي للطلاب

|                                          |    |                                          |     |
|------------------------------------------|----|------------------------------------------|-----|
| Structured SWL (h/w)                     | 33 | Structured SWL (h/w)                     | 2.2 |
| الحمل الدراسي المنتظم للطلاب أسبوعيا     |    | الحمل الدراسي المنتظم للطلاب أسبوعيا     |     |
| Unstructured SWL (h/w)                   | 17 | Unstructured SWL (h/w)                   | 1.4 |
| الحمل الدراسي غير المنتظم للطلاب أسبوعيا |    | الحمل الدراسي غير المنتظم للطلاب أسبوعيا |     |
| Total SWL (h/w)                          | 50 |                                          |     |
| الحمل الدراسي الكلي للطلاب خلال الفصل    |    |                                          |     |

#### Module Evaluation

تقييم المادة الدراسية

|                      | Time/Number     | Weight (Marks)   | Week Due | Relevant Learning Outcome |
|----------------------|-----------------|------------------|----------|---------------------------|
| Formative assessment | Quizzes         | 1                | 10% (10) | 5, 10                     |
|                      | Assignments     | 3                | 10% (10) | 8                         |
|                      | Projects / Lab. |                  |          |                           |
|                      | Report          | 1                | 10% (10) | 13                        |
| Summative assessment | Midterm Exam    | 2 hr             | 20% (20) | 7                         |
|                      | Final Exam      | hr3              | 50% (50) | 16                        |
|                      |                 |                  |          |                           |
| Total assessment     |                 | 100% (100 Marks) |          |                           |

#### Delivery Plan (Weekly Syllabus)

المنهاج الأسبوعي النظري

|         | Material Covered                                                   |
|---------|--------------------------------------------------------------------|
| Week 1  | قواعد اللغة العربية : الكلام وما يتألف منه : الاسم ، والفعل والحرف |
| Week 2  | قواعد : الفعل واقسامه ، علاماته ، الفعل الماضي                     |
| Week 3  | قواعد فعل الامر ، الحرف وما يتميز به                               |
| Week 4  | قواعد : الاعراب والبناء ، وعلاماته الاعراب ، والمثنى والملحق به    |
| Week 5  | ادب ، ونص شعري ، ودراسة وتحليل                                     |
| Week 6  | قواعد : جمع المذكر السالم / والملحق به                             |
| Week 7  | قواعد : الملحقة بالاسماء الستة                                     |
| Week 8  | قواعد : المبتدأ والخبر ، انواع المبتدأ واحكامه                     |
| Week 9  | قواعد : الخبر ، تعريفه وانواعه                                     |
| Week 10 | املاء : قواعد كتابه الهزمة                                         |
| Week 11 | ادب : نص نثري . دراسة وتحليل                                       |
| Week 12 | قواعد : اغلاط لغوية شائعة                                          |
| Week 13 | املاء : قواعد كتابه الالف في نهاية الكلمة                          |
| Week 14 | محاضرة عامة ومناقشات                                               |
| Week 15 | امتحان                                                             |

#### Delivery Plan (Weekly Lab. Syllabus)

المنهاج الأسبوعي المختبر

#### Learning and Teaching Resources

مصادر التعلم والتدريس

|  | Text | Available in the |
|--|------|------------------|
|--|------|------------------|

|                   |                                                                                     |          |
|-------------------|-------------------------------------------------------------------------------------|----------|
|                   |                                                                                     | Library? |
| Required Texts    | - شرح ابن عقيل على الفية ابن مالك .<br>- جامع الدروس العربية تأليف مصطفى الغلاييني. | Yes      |
| Recommended Texts |                                                                                     | No       |
| Websites          |                                                                                     |          |

| Grading Scheme<br>مخطط الدرجات |                  |                     |           |                                       |
|--------------------------------|------------------|---------------------|-----------|---------------------------------------|
| Group                          | Grade            | التقدير             | Marks (%) | Definition                            |
| Success Group<br>(50 - 100)    | A - Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                                | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                                | C - Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                                | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                                | E - Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 - 49)         | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                                | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |
|                                |                  |                     |           |                                       |

| Module Information<br>معلومات المادة الدراسية |                                           |                          |                               |                                                                                                                                                                                                                                   |                          |
|-----------------------------------------------|-------------------------------------------|--------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Module Title                                  | Architectural design I & Graphic design I |                          |                               | Module Delivery                                                                                                                                                                                                                   |                          |
| Module Type                                   | C                                         |                          |                               | <div><input checked="" type="checkbox"/> Theory<br/>Lecture<br/><input type="checkbox"/>x Lab<br/>x<input type="checkbox"/> Tutorial<br/><input checked="" type="checkbox"/> Practical<br/><input type="checkbox"/> Seminar</div> |                          |
| Module Code                                   | Arch1111                                  |                          |                               |                                                                                                                                                                                                                                   |                          |
| ECTS Credits                                  | 12                                        |                          |                               |                                                                                                                                                                                                                                   |                          |
| SWL (hr/sem)                                  | 300                                       |                          |                               |                                                                                                                                                                                                                                   |                          |
| Module Level                                  |                                           | UGx11 1                  | Semester of Delivery          |                                                                                                                                                                                                                                   | 1                        |
| Administering Department                      |                                           | Architecture Engineering | College                       | University of Babylon                                                                                                                                                                                                             |                          |
| Module Leader                                 | Name: mahmood.rezooky                     |                          | e-mail                        | E-mail<br>eng.mahmood.rezooky@uobabylon.edu.iq                                                                                                                                                                                    |                          |
| Module Leader's Acad. Title                   |                                           | Professor                | Module Leader's Qualification |                                                                                                                                                                                                                                   | Ph.D.<br>mahmood.rezooky |
| Module Tutor                                  | Name: Ph.D. ola.abid                      |                          | e-mail                        | E-mail: eng.ola.abid@uobabylon.edu.iq                                                                                                                                                                                             |                          |
| Peer Reviewer Name                            |                                           | Name                     | e-mail                        | E-mail                                                                                                                                                                                                                            |                          |
| Scientific Committee Approval Date            |                                           | 01/06/2023               | Version Number                |                                                                                                                                                                                                                                   | 1.0                      |

| Relation with other Modules<br>العلاقة مع المواد الدراسية الأخرى |   |          |   |
|------------------------------------------------------------------|---|----------|---|
| Prerequisite module                                              | c | Semester | 1 |
| Co-requisites module                                             | c | Semester |   |

| Module Aims, Learning Outcomes and Indicative Contents<br>أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية |                                                                                           |
|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Module Aims                                                                                                        | Preparing the student to enter the world of architecture intellectually, conceptually and |

|                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>أهداف المادة الدراسية</p>                                         | <p>scientifically as a basic work base, and introducing him to the concept of architecture by identifying the principles of design, composition, the third dimension, the architectural space, the human scale, the surroundings of the urban environment, and others. And the development of the student's language of expression for those vocabulary and others. The subject also focuses on developing his artistic and formative sense and the analytical-synthetic thinking style, as well as developing his perception and sensitivity to the natural and urban environment and respect for it, starting from realizing and appreciating the urban environment and studying the formative, formative and directive relationships of its elements and components. تهيئة الطالب لدخول عالم العمارة فكريا ومفاهيميا وعلميا. وكقاعدة عمل أساسية، وتعريفه بمفهوم العمارة من خلال التعرف على مبادئ التصميم والتكوين والبعد الثالث والفضاء المعماري والمقياس الانساني ومحيط البيئة الحضرية وغيرها. وتنمية لغة التعبير لدى الطالب عن تلك المفردات وغيرها. ويركز الموضوع ايضا على تنمية الحس الفني والتكويني لديه ونمط التفكير التحليلي-التركيبى فضلا عن تنمية ادراكه وتحسسه للبيئة الطبيعية والعمرانية واحترامها ابتداء من ادراك وتذوق البيئة لحضرية ودراة العلاقات التكوينية والتشكيلية والاخراجية لعناصرها ومكوناتها.</p> <p>The architectural drawing is one of the most important means of expressing the architectural design ideas. Therefore, the course aims to build and develop the student's expressive skill in addition to training him on the use of different materials and techniques in presentation. The subject focuses on the gradual building of the student's skills through a clear sequence of exercises, starting from exercises related to line values and ending with two-dimensional drawings (Two Dimensional Drawings). ) represented by the horizontal and vertical sections (Sections and Elevations plans). الرسم المعماري احد اهم وسائل التعبير عن افكار المعماري التصميمية. فان المادة تهدف الى بناء وتنمية مهارات الطالب التعبيرية بالاضافة الى تدريبه على استخدام المواد والتقنيات في الموضوع على البناء التدريجي لمهارات الطالب من خلال التسلسل الواضح Presentation المختلفة في الاظهار (Two Dimensional Drawings) للتمرين ابتداء من التمارين الخاصة بقيم الخط ووصولا الى الرسومات ذات البعدين (Sections and Elevations plans). (التمثلة بالمساقط الافقية والعمودية)</p> |
| <p>Module Learning Outcomes</p> <p>مخرجات التعلم للمادة الدراسية</p> | <p>The student is prepared through architectural design and drawing for a full year, after which he is able to use all that he has learned from calligraphy technique, binary and triple formation in addition to the human scale, the basics of architectural design, then he can identify the elements of architectural design and learn the principles of architectural design. He then qualifies in a simple form for architectural criticism. And guidance to design something primitive for a simple project. Where it is fully prepared for it in terms of the student's ability to design what is required of him in a way that leads to his development later in the second stage</p> <p>يتهيئ الطالب من خلال التصميم والرسم المعماري لمدة سنة كاملة حيث يتمكن بعدها من استخدام كل ما تعلمه من تقنيات الخط والتكوين الثنائي والثلاثي اضافة الى المقياس الانساني أساسيات التصميم المعماري ثم يستطيع بعدها التعرف على عناصر التصميم المعماري وتعلم مبادئ التصميم المعماري يتأهل بعدها بشكل بسيط للنقد المعماري والتوجيه لتصميم شئ بدائي لمشروع بسيط. حيث يكون متهيئا لها بشكل كامل من حيث قدرة الطالب على تصميم ما مطلوب منه بشكل يؤدي الى ان يتطور لاحقا في المرحلة الثانية</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <p>Indicative Contents</p> <p>المحتويات الإرشادية</p>                | <p>Developing the capabilities of the student's artistic (20hrs)<br/>architectural creative thinking by developing his architectural information (20hrs)<br/>developing his drawing capabilities (10hrs)<br/>building his architectural memory by viewing architectural products with pictures and videos. (10hrs)<br/>Learn how to show by professional hand drawing and in different styles, watercolors, acrylic markers, etc (10hrs)<br/>Performing all that is required of drawing class assignments from drawing projects in all their stages and showing them at a high professional level through manual drawing (30hrs)<br/>(تنمية قدرات الطالب الفنية (20 ساعة).<br/>التفكير الإبداعي المعماري من خلال تطوير معلوماته المعمارية (20 ساعة)<br/>تطوير قدراته في الرسم (10 ساعات).<br/>بناء ذاكرته المعمارية من خلال عرض المنتجات المعمارية بالصور والفيديو. (10 ساعات)<br/>تعلم كيفية العرض من خلال الرسم اليدوي الاحترافي وبأشكال مختلفة، وألوان مائية، وأقلام تحديد أكريليك، وما إلى ذلك (10 ساعات)<br/>القيام بكل ما هو مطلوب من رسم الواجبات الصفية من رسم المشاريع في جميع مراحلها وإظهارها على مستوى احترافي عالٍ من خلال الرسم اليدوي (30 ساعة).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

## Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies

## Student Workload (SWL)

الحمل الدراسي للطلاب

|                                                                         |     |                                                                     |    |
|-------------------------------------------------------------------------|-----|---------------------------------------------------------------------|----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطلاب خلال الفصل       | 180 | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطلاب أسبوعياً       | 12 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطلاب خلال الفصل | 120 | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطلاب أسبوعياً | 8  |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطلاب خلال الفصل              | 300 |                                                                     |    |

## Module Evaluation Architectural Design I

تقييم المادة الدراسية للتصميم المعماري I

|                      |                 | Time/Number | Weight (Marks) | Week Due            | Relevant Learning Outcome |
|----------------------|-----------------|-------------|----------------|---------------------|---------------------------|
| Formative assessment | Quizzes         |             |                |                     |                           |
|                      | Assignments     | 10          | 25% (25)       | 2, 4,5,6,7, 9,10,11 |                           |
|                      | Projects / Lab. | 2           | 15% (15)       | Continuous          |                           |
|                      | Report          |             |                |                     |                           |
| Summative assessment | Midterm Exam    | 2           | 10%            | 12,14               |                           |
|                      | Final Exam      |             |                |                     | All                       |
| Total assessment     |                 |             | 50% (50 Marks) |                     |                           |

## Module Evaluation Architectural Drawing I

تقييم المادة الدراسية للرسم المعماري I

|                      |                 | Time/Number | Weight (Marks) | Week Due        | Relevant Learning Outcome |
|----------------------|-----------------|-------------|----------------|-----------------|---------------------------|
| Formative assessment | Quizzes         |             |                |                 |                           |
|                      | Assignments     |             |                |                 |                           |
|                      | Projects / Lab. | 5           | 25% (25)       | 2, 5, ,7 ,10,11 |                           |
|                      | Report          | 4           | 20% (20)       | Continuous      |                           |
| Summative assessment | Midterm Exam    |             |                |                 |                           |
|                      | Final Exam      | 2           | 10% (10)       | 8, 14           | All                       |
| Total assessment     |                 |             | 50% (50 Marks) |                 |                           |

## Delivery Plan (Weekly Syllabus)

المناهج الأسبوعي النظري

|  |                  |
|--|------------------|
|  | Material Covered |
|--|------------------|

## Delivery Plan (Weekly Lab. Syllabus)

المناهج الأسبوعي للمختبر

|        |                                                                     |
|--------|---------------------------------------------------------------------|
| Week 1 | Quality of lines in free hand and to scale by measuring instruments |
| Week 2 | Composition fundamentals in pencil graphic shade                    |
| Week 3 | Composition fundamentals in collage                                 |
| Week 4 | Composition types                                                   |
| Week 5 | Color circle                                                        |
| Week 6 | Composition in color                                                |

|         |                                     |
|---------|-------------------------------------|
| Week 7  | The abstraction                     |
| Week 8  | 2D composition abstraction – prelim |
| Week 9  | re- final                           |
| Week 10 | Final 2D composition of abstraction |
| Week 11 | Day Sketch                          |
| Week 12 | 3D composition                      |
| Week 13 | Human                               |

### Learning and Teaching Resources

مصادر التعلم والتدريس

|                   | Text                                                                                                                                                          | Available in the Library? |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Required Texts    | Neufert Architecture s Data<br>-Architectural Design Data<br>-Landscape Architectre<br>-Site construction Details<br>-Pencil Skeching<br>-Perspective Drawing | Yes                       |
| Recommended Texts |                                                                                                                                                               | No                        |
| Websites          |                                                                                                                                                               |                           |

### Grading Scheme

مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A - Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                             | C - Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                             | E - Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 – 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |
|                             |                  |                     |           |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

### Module Information

معلومات المادة الدراسية

|                          |                    |                          |                      |                                                                                                                                                                                                                                       |   |
|--------------------------|--------------------|--------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| Module Title             | Freehand Drawing I |                          |                      | Module Delivery                                                                                                                                                                                                                       |   |
| Module Type              | C                  |                          |                      | <input checked="" type="checkbox"/> Theory<br>Lecture<br><input checked="" type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial<br><input checked="" type="checkbox"/> Practical<br><input checked="" type="checkbox"/> Seminar |   |
| Module Code              | Arch1114           |                          |                      |                                                                                                                                                                                                                                       |   |
| ECTS Credits             | 7                  |                          |                      |                                                                                                                                                                                                                                       |   |
| SWL (hr/sem)             | 175                |                          |                      |                                                                                                                                                                                                                                       |   |
| Module Level             |                    | UGI                      | Semester of Delivery |                                                                                                                                                                                                                                       | 1 |
| Administering Department |                    | Architecture Engineering | College              | University of Babylon                                                                                                                                                                                                                 |   |

|                                    |                     |                               |        |
|------------------------------------|---------------------|-------------------------------|--------|
| Module Leader                      | Name                | e-mail                        | E-mail |
| Module Leader's Acad. Title        | Professor           | Module Leader's Qualification | Ph.D.  |
| Module Tutor                       | Name (if available) | e-mail                        | E-mail |
| Peer Reviewer Name                 | Name                | e-mail                        | E-mail |
| Scientific Committee Approval Date | 01/06/2023          | Version Number                | 1.0    |

Relation with other Modules  
العلاقة مع المواد الدراسية الأخرى

|                      |      |          |  |
|----------------------|------|----------|--|
| Prerequisite module  | None | Semester |  |
| Co-requisites module | None | Semester |  |

Module Aims, Learning Outcomes and Indicative Contents  
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                      | <p>The student learns about the most important techniques used in the basics of free drawing and the design process, such as pencils, inking pens, colored wooden pencils, watercolors, poster colors, and oil colors. - Developing the student's ability in the principles of choosing the appropriate formation and color and feeling them.</p> <p>- Exercising the student's eye on perceiving minute details in tangible physical reality and perceiving proportions, movement, shadow, light and color.</p> <p>- Enabling the student to absorb the vocabulary that he will use in other lessons, such as architectural design and architectural drawing. The successful student submits to the second stage no more than ten works of art during the summer vacation, representing: Documentation of some heritage buildings with pencils, inking pens and wooden pens, documentation of some memorials in Baghdad and the provinces, or movable drawings of Iraqi and international buildings. Optional drawing / additional materials that the student registers on according to his desire and for all classes, and the following is emphasized:</p> <p>- Additional assignments for various topics drawn by the student, transferring international, Arab and local paintings using different techniques. Drawing posters and cards for different occasions, training students who want to learn clay techniques in sculpture and ceramics, adding skill in using gypsum in implementing design shapes that are difficult to implement with conventional materials (such as cardboard and cork).</p> |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية | <ol style="list-style-type: none"> <li>1- Acquaint the student with art and architecture</li> <li>2- To familiarize the student with the capabilities of scientific criticism</li> <li>3- Know the basics of architectural design</li> <li>4- Identify the elements of architectural design</li> <li>5- Learn the principles of architectural design</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Indicative Contents<br>المحتويات الإرشادية                | <p>Study theories of art extensively and broadly (8hrs)</p> <p>Learn about artistic practices of all kinds (8hrs)</p> <p>Studying different drawing methods by getting acquainted with watercolors, acrylics and markers (8hrs)</p> <p>Engaging in development courses for artistic faculties in drawing Methods (8hrs)</p> <p>Taking remedial courses in technical planning methods and studying scale drawing (8hrs)</p> <p>Accurately perform the duties assigned to the student and try to repeat them (8hrs)</p> <p>Trying to draw silent life constantly (8hrs)</p> <p>Drawing the largest number of paintings of buildings and architectural structures and discovering the resulting errors (8hrs)</p> <p>Studying technical drawing methods through the computer through different drawing programs (8hrs)</p> <p>Shading by using the lead pencil. (8hrs)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

### Learning and Teaching Strategies

#### استراتيجيات التعلم والتعليم

#### Strategies

The strategies of the curriculum are divided into first: distant goals such as building a generation of architects capable of innovation that has high architectural taste and intermediate goals through building contemporary architectural thought that is able to combine contemporary, preservation and close goals through developing the student's architectural talents and providing them with intellectual and technical tools.

### Student Workload (SWL)

#### الحمل الدراسي للطالب

|                                                                         |     |                                                                     |     |
|-------------------------------------------------------------------------|-----|---------------------------------------------------------------------|-----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطالب خلال الفصل       | 120 | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطالب أسبوعياً       | 8   |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطالب خلال الفصل | 80  | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطالب أسبوعياً | 5.3 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطالب خلال الفصل              | 200 |                                                                     |     |

### Module Evaluation

#### تقييم المادة الدراسية

| As                   | Time/Number     | Weight (Marks)   | Week Due | Relevant Learning Outcome |
|----------------------|-----------------|------------------|----------|---------------------------|
| Formative assessment | Quizzes         |                  |          |                           |
|                      | Assignments     | 2                | 30% (30) | 2, 12                     |
|                      | Projects / Lab. | 3                | 40% (40) | Continuous                |
| Summative assessment | Midterm Exam    | 2 hr             | 30% (30) | 7                         |
|                      |                 |                  |          | LO # 1-7                  |
| Total assessment     |                 | 100% (100 Marks) |          | All                       |

### Delivery Plan (Weekly Syllabus)

#### المنهاج الأسبوعي النظري

### Delivery Plan (Weekly Lab. Syllabus)

#### المنهاج الأسبوعي للمختبر

| Week    | Material Covered                                                                     |
|---------|--------------------------------------------------------------------------------------|
|         | The first part of the curriculum takes Four hours per week during the first semester |
| Week 1  | An Introduction to the material of the free hand and it's types.                     |
| Week 2  | Training the students to use the hand for using the types of lines.                  |
| Week 3  | Training the students to draw the cubes in different directions.                     |
| Week 4  | The engineering shapes: square, rectangle....etc.                                    |
| Week 5  | Shading by using the lead pencil.                                                    |
| Week 6  | Approximation and Abstraction of the free forms.                                     |
| Week 7  | Life Perspective drawing for three shapes or more.                                   |
| Week 8  | Training to use the colors to paint the posters.                                     |
| Week 9  | Drawing Formation or shaping by using the white and black colors.                    |
| Week 10 | The technique used in some materials( Class, Wood, materials...)                     |
| Week 11 | Perspective studying and exercises about the engineering shapes.                     |
| Week 12 | Perspective studying by using different techniques in drawing.                       |
| Week 13 | The techniques used in data drawing and trees.                                       |
| Week 14 | Review                                                                               |
| Week 15 | Review                                                                               |

| Week    | Material Covered                                                                      |
|---------|---------------------------------------------------------------------------------------|
|         | The Second part of the curriculum takes Four hours per week during the first semester |
| Week 1  | Perspective of building with two points.                                              |
| Week 2  | Continued.                                                                            |
| Week 3  | Perspective of inner building.                                                        |
| Week 4  | Perspective of some international building.                                           |
| Week 5  | The stage quick planning.                                                             |
| Week 6  | The stage of pens. Studying the techniques of drawing by pens.                        |
| Week 7  | Planning for some type of trees.                                                      |
| Week 8  | Drawing a perspective for a building with a pen.                                      |
| Week 9  | Studying a Portrait with focusing on the general planning.                            |
| Week 10 | The stage of painting by the wooden pencil.                                           |
| Week 11 | Painting many types of trees with painting a fruitful quarter.                        |
| Week 12 | Painting a perspective with vanished points.                                          |
| Week 13 | Examination and introducing all the previous paintings.                               |
| Week 14 | Review                                                                                |
| Week 15 | Review                                                                                |

#### Learning and Teaching Resources

مصادر التعلم والتدريس

|                   | Text                                          | Available in the Library? |
|-------------------|-----------------------------------------------|---------------------------|
| Required Texts    | Book of free manual drawing<br>Figure Drawing | Yes                       |
| Recommended Texts |                                               | No                        |
| Websites          |                                               |                           |

#### Grading Scheme

مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A - Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                             | C - Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                             | E - Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 - 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |
|                             |                  |                     |           |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

#### Module Information

معلومات المادة الدراسية

| Module Title | Human Rights and democracy | Module Delivery                                                                                                                                                           |
|--------------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Type  | B                          | <input checked="" type="checkbox"/> Theory<br><input checked="" type="checkbox"/> Lecture<br><input checked="" type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial |
| Module Code  | UOBAB1104                  |                                                                                                                                                                           |
| ECTS Credits | 2                          |                                                                                                                                                                           |

|                                    |                          |                               |                                                                                   |  |
|------------------------------------|--------------------------|-------------------------------|-----------------------------------------------------------------------------------|--|
| SWL (hr/sem)                       | 50                       |                               | <input type="checkbox"/> Practical<br><input checked="" type="checkbox"/> Seminar |  |
| Module Level                       | UGxII                    | Semester of Delivery          | 1                                                                                 |  |
| Administering Department           | Architecture Engineering | College                       | Type College Code                                                                 |  |
| Module Leader                      | Name Yousra Adil Humedy  | e-mail                        | E-mail yousry.<br>Alghazali@uobabylon.edu.iq                                      |  |
| Module Leader's Acad. Title        | Professor                | Module Leader's Qualification | Ph.D.                                                                             |  |
| Module Tutor                       | Name (if available)      | e-mail                        | E-mail                                                                            |  |
| Peer Reviewer Name                 | Name                     | e-mail                        | E-mail                                                                            |  |
| Scientific Committee Approval Date | 01/06/2023               | Version Number                | 1.0                                                                               |  |

#### Relation with other Modules العلاقة مع المواد الدراسية الأخرى

|                      |      |          |  |
|----------------------|------|----------|--|
| Prerequisite module  | None | Semester |  |
| Co-requisites module | None | Semester |  |

#### Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Module Aims<br>أهداف المادة الدراسية                      | <p>أن يحدد الطلبة معنى حقوق الإنسان<br/> أن يعرف الطلبة جذور ونشأة حقوق الإنسان وتطورها في تاريخ البشرية<br/> أن يبين الطلبة حقوق الإنسان في الحضارات القديمة والشرائع السماوية<br/> أن يشرح الطلبة حقوق الإنسان في حضارة وادي الرافدين<br/> أن يشرح الطلبة حقوق الإنسان في الحضارات القديمة الأخرى<br/> أن يعرف الطلبة حقوق الإنسان في الإسلام<br/> أن يذكر الطلبة ماهية حقوق الإنسان في الشريعة الإسلامية<br/> أن يعرف الطلبة حقوق الإنسان في العصور الوسطى والحديثة<br/> أن يذكر الطلبة الاعتراف الدولي المعاصر بحقوق الإنسان على الصعيد الأوروبي والأمريكي والأفريقي والإسلامي والعربي<br/> أن يحدد الطلبة النقاط التي نص عليها ميثاق الأمم المتحدة<br/> أن يشرح الطلبة نشوء المنظمات غير الحكومية ودورها في ميادين حقوق الإنسان</p> |  |  |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |
| Indicative Contents<br>المحتويات الإرشادية                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |

#### Learning and Teaching Strategies استراتيجيات التعلم والتعليم

|            |  |
|------------|--|
| Strategies |  |
|------------|--|

#### Student Workload (SWL) الحمل الدراسي للطلاب

|                                                                         |    |                                                                     |     |
|-------------------------------------------------------------------------|----|---------------------------------------------------------------------|-----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطلاب خلال الفصل       | 33 | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطلاب أسبوعياً       | 2.2 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطلاب خلال الفصل | 17 | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطلاب أسبوعياً | 1.4 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطلاب خلال الفصل              | 50 |                                                                     |     |

### Module Evaluation

تقييم المادة الدراسية

|                      |                 | Time/Number | Weight (Marks)   | Week Due | Relevant Learning Outcome |
|----------------------|-----------------|-------------|------------------|----------|---------------------------|
| Formative assessment | Quizzes         | .5          | 10% (5)          | 5, 10    | LO #1, 2, 10 and 11       |
|                      | Assignments     | 2           | 10% (5)          | 2, 12    | LO # 3, 4, 6 and 7        |
|                      | Projects / Lab. |             |                  |          |                           |
|                      | Report          | 1           | 10% (10)         | 13       | LO # 5, 8 and 10          |
| Summative assessment | Midterm Exam    | 2 hr        | 10% (30)         | 7        | LO # 1-7                  |
|                      | Final Exam      | 2hr         | 50% (50)         | 16       | All                       |
| Total assessment     |                 |             | 100% (100 Marks) |          |                           |

### Delivery Plan (Weekly Syllabus)

المناهج الاسبوعي النظري

|         | Material Covered                                                                                                                                                                                       |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Week 1  | مدخل لدراسة حقوق الانسان (مفهوم الحق). - جذور حقوق الانسان وتطورها القانوني. حقوق الانسان في الاسلام.                                                                                                  |
| Week 2  | تعريف حقوق الانسان. - خصائص حقوق الانسان. - مميزات حقوق الانسان                                                                                                                                        |
| Week 3  | صادر حقوق الانسان. - المصادر الدولية لحقوق الانسان: 1- الاعلان العالمي لحقوق الانسان. 2- العهد الدولي الخاص بالحقوق المدنية والسياسية. 3- العهد الدولي الخاص بالحقوق الاقتصادية والاجتماعية والثقافية. |
| Week 4  | مصادر الوطنية لحقوق الانسان. - اعلان حقوق الانسان والمواطن الفرنسي عام 1789. الدساتير والاعلانات الفرنسية التي تلت اعلان حقوق الانسان الفرنسي عام 1789.                                                |
| Week 5  | دستور جمهورية العراق الدائم سنة 2005. - ضمانات حقوق الانسان: الضمانات الدستورية العامة (الاساسية). - الضمانات الدستورية الخاصة. - الضمانات القضائية                                                    |
| Week 6  | ضمانات حقوق الانسان في الاسلام. - دور ميثاق الامم المتحدة في حماية حقوق الانسان. دور المنظمات الاقليمية في حماية حقوق الانسان.                                                                         |
| Week 7  | مستقبل حقوق الانسان - التقدم التكنولوجي وأثره على الحقوق والحريات. - حلقة نقاشية بخصوص الاسئلة والاستفسارات عن مواضيع حقوق الانسان                                                                     |
| Week 8  | مقدمة عن الحرية والديمقراطية. - واقع الحرية الفردية تاريخيا. - دراسة الاطار الفكري والفلسفي حول موضوع الحرية.                                                                                          |
| Week 9  | مفهوم الحقوق والحريات. - مستوى الحريات العامة. - الحقوق والحريات العامة في الشريعة الاسلامية.                                                                                                          |
| Week 10 | انواع الانظمة السياسية من حيث ممارسة السلطة                                                                                                                                                            |
| Week 11 | نشأة الديمقراطية. - صور الديمقراطية. - الديمقراطية المباشرة                                                                                                                                            |
| Week 12 | - الديمقراطية النيابية. - الديمقراطية شبه المباشرة.                                                                                                                                                    |
| Week 13 | المظاهر الرئيسية للديمقراطية شبه المباشرة.                                                                                                                                                             |
| Week 14 | المظاهر الثانوية للديمقراطية شبه المباشرة                                                                                                                                                              |
| Week 15 | مفهوم الانتخاب وتكليفه القانوني. - حلقة نقاشية بخصوص الاسئلة والاستفسارات عن مواضيع الحرية والديمقراطية                                                                                                |

### Delivery Plan (Weekly Lab. Syllabus)

المناهج الاسبوعي للمختبر

|  | Material Covered |
|--|------------------|
|--|------------------|

### Learning and Teaching Resources

مصادر التعلم والتدريس

|                   | Text | Available in the Library? |
|-------------------|------|---------------------------|
| Required Texts    |      | Yes                       |
| Recommended Texts |      | No                        |
| Websites          |      |                           |

### Grading Scheme

مخطط الدرجات

| Group         | Grade         | التقدير | Marks (%) | Definition              |
|---------------|---------------|---------|-----------|-------------------------|
| Success Group | A - Excellent | امتياز  | 90 - 100  | Outstanding Performance |

|                        |                  |                     |         |                                       |
|------------------------|------------------|---------------------|---------|---------------------------------------|
| (50 - 100)             | B - Very Good    | جيد جدا             | 80 - 89 | Above average with some errors        |
|                        | C - Good         | جيد                 | 70 - 79 | Sound work with notable errors        |
|                        | D - Satisfactory | متوسط               | 60 - 69 | Fair but with major shortcomings      |
|                        | E - Sufficient   | مقبول               | 50 - 59 | Work meets minimum criteria           |
| Fail Group<br>(0 – 49) | FX – Fail        | راسب (قيد المعالجة) | (45-49) | More work required but credit awarded |
|                        | F – Fail         | راسب                | (0-44)  | Considerable amount of work required  |
|                        |                  |                     |         |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

**المستوى الأول – الفصل الثاني**  
**MODULE DESCRIPTION FORM**  
 نموذج وصف المادة الدراسية

| Module Information<br>معلومات المادة الدراسية |                                       |                          |                                                                                                                                                                                                                            |                                              |
|-----------------------------------------------|---------------------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Module Title                                  | Principles of Art and Architecture II |                          | Module Delivery                                                                                                                                                                                                            |                                              |
| Module Type                                   | S                                     |                          | <input checked="" type="checkbox"/> Theory<br>Lecture<br><input type="checkbox"/> Lab<br><input checked="" type="checkbox"/> Tutorial<br><input type="checkbox"/> Practical<br><input checked="" type="checkbox"/> Seminar |                                              |
| Module Code                                   | UOBAB0106021                          |                          |                                                                                                                                                                                                                            |                                              |
| ECTS Credits                                  | 2                                     |                          |                                                                                                                                                                                                                            |                                              |
| SWL (hr/sem)                                  | 50                                    |                          |                                                                                                                                                                                                                            |                                              |
| Module Level                                  |                                       | UGI                      | Semester of Delivery                                                                                                                                                                                                       |                                              |
| Administering Department                      |                                       | Architecture Engineering | College                                                                                                                                                                                                                    | University of Babylon                        |
| Module Leader                                 | Name: DR. HUSSAM JABBAR               |                          | e-mail                                                                                                                                                                                                                     | E-mail<br>Eng.hussam.jabbar@uobabylon.end.iq |
| Module Leader's Acad. Title                   |                                       | Professor                | Module Leader's Qualification                                                                                                                                                                                              |                                              |
|                                               |                                       |                          | Ph.D.                                                                                                                                                                                                                      |                                              |
| Module Tutor                                  | Name (if available)                   |                          | e-mail                                                                                                                                                                                                                     | E-mail<br>Eng.hussam.jabbar@uobabylon.end.iq |
| Peer Reviewer Name                            |                                       | Name                     | e-mail                                                                                                                                                                                                                     | E-mail<br>Eng.hussam.jabbar@uobabylon.end.iq |
| Scientific Committee Approval Date            |                                       | 01/06/2023               | Version Number                                                                                                                                                                                                             | 1.0                                          |

**Relation with other Modules**  
 العلاقة مع المواد الدراسية الأخرى

|                      |      |          |  |
|----------------------|------|----------|--|
| Prerequisite module  | None | Semester |  |
| Co-requisites module | None | Semester |  |

**Module Aims, Learning Outcomes and Indicative Contents**  
 أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية | The course aims to develop the capabilities of analysis and criticism by establishing the necessary principles and enhancing the study of the concepts of space, mass and form from various aspects, and reviewing the most important critical proposals that dealt with architecture as a hybrid product of science and art and deepening the student's sense at the entrance to his academic life of design elements such as line, direction, color and texture ..... etc. The course also aims to explain in detail the artistic trends in the nineteenth and twentieth centuries and link them with architecture so that the influence |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                           | of each of these artistic movements on architecture becomes clear. On the contrary, the classical approach began with Greece and Romanism and ended with the new modernity approach in the nineties The last century and the beginning of the second millennium, passing through many artistic movements, including romanticism, impressionism, brutalism, cubism, expressionism, performance, surrealism, constructivism, Russian, and Steele    |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية | -1 Acquaint the student with art and architecture<br>-2 To familiarize the student with the capabilities of scientific criticism<br>-3 Kn the principles of architectural design ow the basics of architectural design<br>-4 Identify the elements of architectural design<br>5- Learn                                                                                                                                                            |
| Indicative Contents<br>المحتويات الإرشادية                | Developing the capabilities of the student's artistic (3hrs)<br>architectural creative thinking by developing his architectural information (4hrs)<br>developing his drawing capabilities (4hrs)<br>building his architectural memory by viewing architectural products with pictures and videos. (3hrs)<br>The student's memory is also developed by feeding it with the biographies of international architects and architecture masters (3hrs) |

### Learning and Teaching Strategies

#### استراتيجيات التعلم والتعليم

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategies | The strategies of the curriculum are divided into first: distant goals such as building a generation of architects capable of innovation that has high architectural taste and intermediate goals through building contemporary architectural thought that is able to combine contemporary, preservation and close goals through developing the student's architectural talents and providing them with intellectual and technical tools. |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Student Workload (SWL)

#### الحمل الدراسي للطالب

|                                                                         |    |                                                                     |     |
|-------------------------------------------------------------------------|----|---------------------------------------------------------------------|-----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطالب خلال الفصل       | 33 | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطالب أسبوعياً       | 2.2 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطالب خلال الفصل | 17 | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطالب أسبوعياً | 1.4 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطالب خلال الفصل              | 50 |                                                                     |     |

### Module Evaluation

#### تقييم المادة الدراسية

|                      |                 | Time/Number | Weight (Marks)   | Week Due         | Relevant Learning Outcome |
|----------------------|-----------------|-------------|------------------|------------------|---------------------------|
| Formative assessment | Quizzes         | 1           | 5%               | 3.8              |                           |
|                      | Assignments     | 1           | 5%               | 13.15            |                           |
|                      | Projects / Lab. |             |                  |                  |                           |
|                      | Report          | 10%         | 10%              | 10-15            |                           |
| Summative assessment | Midterm Exam    | 2 hr        | 30%              | 6,11             |                           |
|                      | Final Exam      | 3hr         | 50% (50)         | 16               | All                       |
| Total assessment     |                 |             | 100% (100 Marks) | Total assessment | 100% (100 Marks)          |

### Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري 2

|         | Material Covered                                                                                                                                                             |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Week 1  | Classical direction when the Greeks and Romans, the Renaissance and the seventeenth century                                                                                  |
| Week 2  | The real trend in the second half of the nineteenth century impressionism in the last quarter of the nineteenth century - the artist impressionist Cezanne new Impressionist |
| Week 3  | Brutality in art, Cubism by explaining the work of the artist Picasso                                                                                                        |
| Week 4  | Expressionism in art - Kandinsky future in art                                                                                                                               |
| Week 5  | Performing Surrealism - Salvador Dali, abstract art – Mondrian                                                                                                               |
| Week 6  | Supremacy - Malv Russian Constructivism - my father Steel Movement                                                                                                           |
| Week 7  | General explanation of the relationship of artistic trends in architecture                                                                                                   |
| Week 8  | Romance and architecture: Modern Art Nouveau movement, Gaudi, expressive architecture trends in expressive movement in the new architecture and expressive                   |
| Week 9  | Future architecture, and future expressive in the architecture (link points and separation in Architecture                                                                   |
| Week 10 | destil architecture, Bauhaus                                                                                                                                                 |
| Week 11 | General explanation of the architectural trends in the nineteenth and twentieth and its relationship to architecture                                                         |
| Week 12 | The repercussions of the technical trends in the late modern architecture, and postmodernism and the new modernity (disassembly and folding)                                 |

### Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

|  | Material Covered |
|--|------------------|
|--|------------------|

### Learning and Teaching Resources

مصادر التعلم والتدريس

|                   | Text                                                                                                                                                                                                                                | Available in the Library? |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Required Texts    | مباديء الفن والعمارة                                                                                                                                                                                                                | Yes                       |
| Recommended Texts | عصر اساطين العمارة<br>العمارة وتفسيرها                                                                                                                                                                                              | No                        |
| Websites          | <a href="https://www.academia.edu/3882812/%D9%86%D8%B8%D8%B1%D9%8A%D8%A9_%D8%A7%D9%84%D8%B9%D9%85%D8%A7%D8%B1%D8%A9">https://www.academia.edu/3882812/%D9%86%D8%B8%D8%B1%D9%8A%D8%A9_%D8%A7%D9%84%D8%B9%D9%85%D8%A7%D8%B1%D8%A9</a> |                           |

### Grading Scheme

مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A - Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                             | C - Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                             | E - Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 - 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |
|                             |                  |                     |           |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

Module Information  
معلومات المادة الدراسية

|                                    |                         |                          |                               |                                                                                                                                                                                                                            |       |
|------------------------------------|-------------------------|--------------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Module Title                       | Building Construction I |                          |                               | Module Delivery                                                                                                                                                                                                            |       |
| Module Type                        | C                       |                          |                               | <input checked="" type="checkbox"/> Theory<br>Lecture<br><input type="checkbox"/> Lab<br><input checked="" type="checkbox"/> Tutorial<br><input checked="" type="checkbox"/> Practical<br><input type="checkbox"/> Seminar |       |
| Module Code                        | UOBAB0106022            |                          |                               |                                                                                                                                                                                                                            |       |
| ECTS Credits                       | 6                       |                          |                               |                                                                                                                                                                                                                            |       |
| SWL (hr/sem)                       | 150                     |                          |                               |                                                                                                                                                                                                                            |       |
| Module Level                       |                         | UGI                      | Semester of Delivery          |                                                                                                                                                                                                                            | 2     |
| Administering Department           |                         | Architecture Engineering | College                       | University of Babylon                                                                                                                                                                                                      |       |
| Module Leader                      | Name: Alaa hadi         |                          | e-mail                        | E-mail<br>eng.alaa.hadi@uobabylon.edu.iq                                                                                                                                                                                   |       |
| Module Leader's Acad. Title        |                         | Professor                | Module Leader's Qualification |                                                                                                                                                                                                                            | Ph.D. |
| Module Tutor                       | Name (if available)     |                          | e-mail                        | E-mail                                                                                                                                                                                                                     |       |
| Peer Reviewer Name                 |                         | Name                     | e-mail                        | E-mail                                                                                                                                                                                                                     |       |
| Scientific Committee Approval Date |                         | 01/06/2023               | Version Number                |                                                                                                                                                                                                                            | 1.0   |

Relation with other Modules  
العلاقة مع المواد الدراسية الأخرى

|                      |      |          |  |
|----------------------|------|----------|--|
| Prerequisite module  | None | Semester |  |
| Co-requisites module | None | Semester |  |

Module Aims, Learning Outcomes and Indicative Contents  
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                      | The course aims to teach the student, on the various building materials used locally and globally, with a focus on local building materials, and the installation of materials together during the first semester.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية | List the graduate outcomes for the program and indicate where they are documented. If the graduate outcomes are stated differently than those listed in Criterion 2, provide a mapping of the program's graduate outcomes to the Graduate Outcomes (i) through (vii) listed in Criterion 2 of the Accreditation Criteria.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Indicative Contents<br>المحتويات الإرشادية                | <p>Video lectures, presentations (power point), screens, graphics, theoretical lectures, and other means of clarifying the scientific material (11h)</p> <p>the definition of construction materials and local cuisine (identification of factors affecting (10h)</p> <p>the quality of the materials and the method of election (10h)</p> <p>construction concepts , the inlay of its walls and partitions floor foundations and ceilings (12h)</p> <p>construction use of brick, types of bric the joints of the the process of construction leveling mortaring (10h)</p> <p>construction using stones, the classification of the stones, types of stone walls, the joints of the stone blocks (12h)</p> <p>construction concrete blocks (12h)</p> <p>wood their uses in building construction- carrier walls and wooden framing (10h)</p> |

Learning and Teaching Strategies  
استراتيجيات التعلم والتعليم

|            |                                            |
|------------|--------------------------------------------|
| Strategies | 1. Graduating highly qualified architects. |
|------------|--------------------------------------------|

2. Building the leadership qualities of its graduates by teaching them how to lead, solve construction problems, and the ability to choose appropriate construction details and materials.
3. Instilling a spirit of imagination in graduates and a commitment to acquiring knowledge and serving the community.
4. Contribute to project ideas, conduct research for the benefit and development of society, and involve students to work on projects that are under implementation.
5. Taking care of the outstanding students and encouraging them to use their skills.
- 6 Focusing on correct scientific, academic, professional and high ethical standards within the university campus. and encourage sharing

#### Student Workload (SWL)

الحمل الدراسي للطالب

|                                                                         |     |                                                                     |     |
|-------------------------------------------------------------------------|-----|---------------------------------------------------------------------|-----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطالب خلال الفصل       | 63  | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطالب أسبوعياً       | 4.2 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطالب خلال الفصل | 87  | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطالب أسبوعياً | 5.8 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطالب خلال الفصل              | 150 |                                                                     |     |

#### Module Evaluation

تقييم المادة الدراسية

|                      | Time/Number     | Weight (Marks)   | Week Due | Relevant Learning Outcome |
|----------------------|-----------------|------------------|----------|---------------------------|
| Formative assessment | Quizzes         |                  |          | LO #1, 2, 10 and 11       |
|                      | Assignments     | 8                | 10% (10) | 5, 10                     |
|                      | Projects / Lab. |                  |          |                           |
|                      | Report          | 1                | 10% (10) | 13                        |
| Summative assessment | Midterm Exam    | 2 hr             | 30% (10) | 7                         |
|                      | Final Exam      | 2hr              | 50% (50) | 16                        |
| Total assessment     |                 | 100% (100 Marks) |          |                           |

#### Delivery Plan (Weekly Syllabus)

المنهاج الأسبوعي النظري

#### Delivery Plan (Weekly Lab. Syllabus)

المنهاج الأسبوعي للمختبر

|             | Material Covered                                                                                                                                        |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Week 1      | the definition of construction materials and local cuisine (identification of factors affecting the quality of the materials and the method of election |
| Week 2      | construction concepts , the inlay of its walls and partitions floor foundations and ceilings                                                            |
| Week 3 -4-5 | construction use of brick, types of bric the joints of the the process of construction leveling mortaring                                               |
| Week 6-7    | construction using stones, the classification of the stones, types of stone walls, the joints of the stone blocks                                       |
| Week 8-9    | construction concrete blocks                                                                                                                            |
| Week 10     | wood their uses in building construction- carrier walls and wooden framing                                                                              |
| Week 11     | the iron and steel (versatility in construction (structural characteristics, structural systems                                                         |

#### Learning and Teaching Resources

مصادر التعلم والتدريس

|  | Text | Available in the Library? |
|--|------|---------------------------|
|--|------|---------------------------|

|                   |                                                                                                                                                                                               |     |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Required Texts    | Fundamentals of Electric Circuits, C.K. Alexander and M.N.O Sadiku, McGraw-Hill Education                                                                                                     | Yes |
| Recommended Texts | DC Electrical Circuit Analysis: A Practical Approach<br>Copyright Year: 2020, dissidents.                                                                                                     | No  |
| Websites          | <a href="https://www.coursera.org/browse/physical-science-and-engineering/electrical-engineering">https://www.coursera.org/browse/physical-science-and-engineering/electrical-engineering</a> |     |

#### Grading Scheme

مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A - Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                             | C - Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                             | E - Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 - 49)      | FX – Fail        | راسب (فيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |
|                             |                  |                     |           |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

#### Module Information

معلومات المادة الدراسية

|                                    |                         |                          |                               |                                                                                                                                                                                                                                 |       |
|------------------------------------|-------------------------|--------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Module Title                       | Mathematics II          |                          |                               | Module Delivery                                                                                                                                                                                                                 |       |
| Module Type                        | B                       |                          |                               | <div><input checked="" type="checkbox"/> Theory<br/>Lecture<br/><input type="checkbox"/> Lab<br/><input type="checkbox"/> Tutorial<br/><input type="checkbox"/> Practical<br/><input checked="" type="checkbox"/> Seminar</div> |       |
| Module Code                        | UOBAB0106023            |                          |                               |                                                                                                                                                                                                                                 |       |
| ECTS Credits                       | 2                       |                          |                               |                                                                                                                                                                                                                                 |       |
| SWL (hr/sem)                       | 50                      |                          |                               |                                                                                                                                                                                                                                 |       |
| Module Level                       |                         | UGx11 1                  | Semester of Delivery          |                                                                                                                                                                                                                                 | 2     |
| Administering Department           |                         | Architecture Engineering | College                       | University of Babylon                                                                                                                                                                                                           |       |
| Module Leader                      | Fatimah Fahem Alkhafaji |                          | e-mail                        | mat.fatimah.fahem@uobabylon.edu.iq                                                                                                                                                                                              |       |
| Module Leader's Acad. Title        |                         | Assist.Professor         | Module Leader's Qualification |                                                                                                                                                                                                                                 | Ph.D. |
| Module Tutor                       | Name (if available)     |                          | e-mail                        | E-mail                                                                                                                                                                                                                          |       |
| Peer Reviewer Name                 |                         | Name                     | e-mail                        | E-mail                                                                                                                                                                                                                          |       |
| Scientific Committee Approval Date |                         | 01/06/2023               | Version Number                |                                                                                                                                                                                                                                 | 1.0   |

#### Relation with other Modules

العلاقة مع المواد الدراسية الأخرى

|                      |      |          |  |
|----------------------|------|----------|--|
| Prerequisite module  | None | Semester |  |
| Co-requisites module | None | Semester |  |

### Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                      | It is to give the student a general idea of mathematics as basic principles for a student in the College of Engineering, with the addition of some engineering applications that benefit the architecture student in his advanced stages                                                                                                                                                                                                                                                                                  |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية | .A1- Studying the Cartesian axes and the basics of analytical geometry (<br>.A 2- Learn a set of ways to draw functions using different techniques<br>A3 - Using the concept of purpose, approximation, and approximation in<br>.consolidating and understanding the concept of mathematical differentiation<br>A 4- Using the concept of purpose to explain the concept of differentiation<br>.and derivatives<br>A5 - Application of quantitative and numerical methods for the purpose of solving engineering problems |
| Indicative Contents<br>المحتويات الإرشادية                | 1. Conic sections (4hr)<br>2. Introduction of Integration (2hr)<br>3. Integration of ordinary functions (2hr)<br>4. indefinite integrations (2hr)<br>5. Definite integrations (2hr)<br>6. Transcendental functions (logarithm and exponential functions : derivatives and graphs (6hr)<br>7. Applications of integration (4hr)<br>8. Techniques of integration (6hr)<br>9. Overview (2hr)                                                                                                                                 |

### Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

|            |                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategies | Type something like: The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering type of simple experiments involving some sampling activities that are interesting to the students. |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Student Workload (SWL)

الحمل الدراسي للطالب

|                                                                         |    |                                                                     |     |
|-------------------------------------------------------------------------|----|---------------------------------------------------------------------|-----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطالب خلال الفصل       | 33 | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطالب أسبوعياً       | 2.2 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطالب خلال الفصل | 17 | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطالب أسبوعياً | 1.4 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطالب خلال الفصل              | 50 |                                                                     |     |

### Module Evaluation

تقييم المادة الدراسية

|                      |                 | Time/Number | Weight (Marks)   | Week Due | Relevant Learning Outcome |
|----------------------|-----------------|-------------|------------------|----------|---------------------------|
| Formative assessment | Quizzes         | .5          | 10% (5)          | 5, 10    | LO #1, 2, 10 and 11       |
|                      | Assignments     | 2           | 10% (10)         | 2, 12    | LO # 3, 4, 6 and 7        |
|                      | Projects / Lab. |             |                  |          |                           |
|                      | Report          | 1           | 10% (10)         | 13       | LO # 5, 8 and 10          |
| Summative assessment | Midterm Exam    | 2 hr        | 10% (25)         | 7        | LO # 1-7                  |
|                      | Final Exam      | 2hr         | 50% (50)         | 16       | All                       |
| Total assessment     |                 |             | 100% (100 Marks) |          |                           |

### Delivery Plan (Weekly Syllabus)

المنهاج الأسبوعي النظري

|         | Material Covered                                                                       |
|---------|----------------------------------------------------------------------------------------|
| Week 1  | Conic sections                                                                         |
| Week 2  | Conic sections                                                                         |
| Week 3  | Introduction of Integration                                                            |
| Week 4  | Integration of ordinary functions                                                      |
| Week 5  | indefinite integrations                                                                |
| Week 6  | Definite integrations                                                                  |
| Week 7  | Transcendental functions (logarithm and exponential functions : derivatives and graphs |
| Week 8  | Transcendental functions (logarithm and exponential functions : derivatives and graphs |
| Week 9  | Transcendental functions (logarithm and exponential functions : derivatives and graphs |
| Week 10 | Applications of integration                                                            |
| Week 11 | Applications of integration                                                            |
| Week 12 | Techniques of integration                                                              |
| Week 13 | Techniques of integration                                                              |
| Week 14 | Techniques of integration                                                              |
| Week 15 | Overview                                                                               |

### Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

|        | Material Covered                                          |
|--------|-----------------------------------------------------------|
| Week 1 | Lab 1: Introduction to Agilent VEE and PSPICE             |
| Week 2 | Lab 2: Thévenin's / Norton's Theorem and Kirchhoff's Laws |
| Week 3 | Lab 3: First-Order Transient Responses                    |
| Week 4 | Lab 4: Second-Order Transient Responses                   |
| Week 5 | Lab 5: Frequency Response of RC Circuits                  |
| Week 6 | Lab 6: Frequency Response of RLC Circuits                 |
| Week 7 | Lab 7: Filters                                            |

### Learning and Teaching Resources

مصادر التعلم والتدريس

|                   | Text                                                                                                                                                                                          | Available in the Library? |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Required Texts    | Fundamentals of Electric Circuits, C.K. Alexander and M.N.O Sadiku, McGraw-Hill Education                                                                                                     | Yes                       |
| Recommended Texts | DC Electrical Circuit Analysis: A Practical Approach<br>Copyright Year: 2020, dissidents.                                                                                                     | No                        |
| Websites          | <a href="https://www.coursera.org/browse/physical-science-and-engineering/electrical-engineering">https://www.coursera.org/browse/physical-science-and-engineering/electrical-engineering</a> |                           |

### Grading Scheme

مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A - Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                             | C - Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                             | E - Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 - 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |

### Module Information

معلومات المادة الدراسية

|                                    |                               |                          |                               |                                                                                                                                                                                                                            |       |
|------------------------------------|-------------------------------|--------------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Module Title                       | Principle of Computer Graphic |                          |                               | Module Delivery                                                                                                                                                                                                            |       |
| Module Type                        | <u>B</u>                      |                          |                               | <input checked="" type="checkbox"/> Theory<br>Lecture<br><input checked="" type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial<br><input type="checkbox"/> Practical<br><input checked="" type="checkbox"/> Seminar |       |
| Module Code                        | Arch2415                      |                          |                               |                                                                                                                                                                                                                            |       |
| ECTS Credits                       | <u>6</u>                      |                          |                               |                                                                                                                                                                                                                            |       |
| SWL (hr/sem)                       | <u>150</u>                    |                          |                               |                                                                                                                                                                                                                            |       |
| Module Level                       |                               | UGI                      | Semester of Delivery          |                                                                                                                                                                                                                            | 2     |
| Administering Department           |                               | Architecture Engineering | College                       | University of Babylon                                                                                                                                                                                                      |       |
| Module Leader                      | Dr. Hussam Jabbar Abass       |                          | e-mail                        |                                                                                                                                                                                                                            |       |
| Module Leader's Acad. Title        |                               | Professor                | Module Leader's Qualification |                                                                                                                                                                                                                            | Ph.D. |
| Module Tutor                       | Name (if available)           |                          | e-mail                        | E-mail                                                                                                                                                                                                                     |       |
| Peer Reviewer Name                 |                               | Name                     | e-mail                        | E-mail                                                                                                                                                                                                                     |       |
| Scientific Committee Approval Date |                               | 01/06/2023               | Version Number                |                                                                                                                                                                                                                            | 1.0   |

Relation with other Modules  
العلاقة مع المواد الدراسية الأخرى

|                      |      |          |  |
|----------------------|------|----------|--|
| Prerequisite module  | None | Semester |  |
| Co-requisites module | None | Semester |  |

Module Aims, Learning Outcomes and Indicative Contents  
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                      | Training provides a thorough grounding in AutoCAD. On completing the course you will be able to produce accurate 2D drawings .In this course beginner AutoCAD class, you'll learn basic drawing and modifying techniques for drafting and technical drawing, using AutoCAD to create drawings that can be used to build and real objects both mechanical and architectural. We'll cover basic methods of printing and plotting layouts and sheets, working between model space and paper space, and scaling drawings through viewports. Learn techniques for inserting blocks, making text, dimensioning drawings, and working with layers and templates.                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية | <p>Upon successful completion of this course, students are able to do the following.</p> <ul style="list-style-type: none"> <li>• Demonstrate knowledge of typical drafted drawings such as plans, sections, elevations, reflected ceiling plans and construction details using Autodesk's AutoCAD as a drafting tool.</li> <li>• Demonstrate system setup of Autodesk's AutoCAD and Revit software</li> <li>• Use AutoCAD commands to create standard architectural drawings.</li> <li>• Use AutoCAD commands to add communicative details to a drawing</li> <li>• Use AutoCAD to store and retrieve custom blocks and software generated blocks for repeated use.</li> <li>• Create various line types and line weights using various AutoCAD and print settings.</li> <li>• Create 3D views from the information provided in a 2D drawing.</li> <li>• Create a multi-page architectural drawing set.</li> <li>• Create a multi-page PDF file of the above to send to a prospective client.</li> <li>• Analyze &amp; discuss an architectural drawing set showing various views of the structure.</li> </ul> |
| Indicative Contents<br>المحتويات الإرشادية                | <p>INDICATIVE CONTENT INCLUDES THE FOLLOWING.</p> <p><u>Part A – 2D Drawings</u></p> <p>analyze and draw any engineering drawing 2D using the facilities that the AutoCAD program produce such as using basic elements (line, circle,</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | rectangular...etc.). [15 hrs]<br>Modify any drawing using the tools (move, copy, mirror, offset, array, etc.) [12 hrs]<br>add the dimensions to the drawing [3 hrs]<br><b>Part B – 3D drawings</b> <ul style="list-style-type: none"> <li>analyze and draw any engineering drawing 3D using the facilities that the AutoCAD program produce such as using basic elements [6 hrs]</li> <li>Learn to modify, edit the 3D drawing (move, copy, mirror...etc.). [6 hrs]</li> <li>Learn to add dimensions to the 3D drawings. [3 hrs]</li> </ul> |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Learning and Teaching Strategies<br>استراتيجيات التعلم والتعليم |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategies                                                      | <ul style="list-style-type: none"> <li>Decide on a CAD field. CAD is used in everything from manufacturing, mechanical design, electronics, 3D printing, architecture, and more. ...</li> <li>Watch online tutorials. ...</li> <li>Take a class. ...</li> <li>Practice CAD using objects around your house. ...</li> <li>Move on to harder projects. ...</li> <li>Ask questions and search for help. ...</li> <li>Teach others.</li> </ul> |

| Student Workload (SWL)<br>الحمل الدراسي للطلاب                          |    |                                                                    |     |
|-------------------------------------------------------------------------|----|--------------------------------------------------------------------|-----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطلاب خلال الفصل       | 48 | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطلاب أسبوعيا       | 3.2 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطلاب خلال الفصل | 27 | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطلاب أسبوعيا | 1.8 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطلاب خلال الفصل              | 75 |                                                                    |     |

| Module Evaluation<br>تقييم المادة الدراسية |                                         |             |                  |          |                           |
|--------------------------------------------|-----------------------------------------|-------------|------------------|----------|---------------------------|
|                                            |                                         | Time/Number | Weight (Marks)   | Week Due | Relevant Learning Outcome |
| Formative assessment                       | الاختبارات<br>Quizzes                   | 1           | 14% (14)         | 5, 10    | LO #1, 2, 10 and 11       |
|                                            | Projects                                |             | 8% (8)           |          | LO # 5, 8 and 10          |
|                                            | المختبر<br>Lab                          |             | 8% (8)           |          | LO # 5, 8 and 10          |
|                                            | واجبات بيتية<br>online assignment       |             |                  |          |                           |
|                                            | واجبات داخل الكلية<br>onsite assignment |             | 10% (10)         |          | LO # 5, 8 and 10          |
|                                            | Report                                  |             |                  |          |                           |
| حلقات دراسية                               |                                         |             |                  |          |                           |
| Summative assessment                       | Midterm Exam                            | 2 hr        | 10% (10)         | 7        | LO # 1-7                  |
|                                            | Final Exam                              | 3hr         | 50% (50)         | 16       | All                       |
| Total assessment                           |                                         |             | 100% (100 Marks) |          |                           |

| Delivery Plan (Weekly Lab. Syllabus)<br>المنهاج الاسبوعي للمختبر |                                                                                                   |
|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
|                                                                  | Material Covered                                                                                  |
| Week 1                                                           | <b>INTRODUCTION TO AUTOCAD</b> <ul style="list-style-type: none"> <li>Starting AutoCAD</li> </ul> |

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | <ul style="list-style-type: none"> <li>• AutoCAD Screen Components (Drawing Area, Command Window, Navigation bar and Status bar)</li> <li>• Invoking Commands in AutoCAD (Keyboard, Ribbon Application Menu, Tool Palettes, Menu Bar, Toolbar and Shortcut Menu)</li> <li>• AutoCAD Dialog Boxes</li> <li>• Starting a New Drawing (Open a Drawing, Start from, Scratch Use a Template and Use a Wizard)</li> <li>• Saving Your Work</li> <li>• Save Drawing as Dialog box (Using the Drawing Recovery Manager to Recover Files)</li> <li>• Closing a Drawing</li> <li>• Opening an Existing Drawing (Opening an Existing Drawing Using the Select File Dialog Box, Opening an Existing Drawing Using the Start up Dialog Box and, Opening an Existing Drawing Using the Drag and Drop Method)</li> <li>• Quitting AutoCAD</li> <li>• Creating and Managing Workspaces (Creating a New Workspace, Modifying the Workspace Settings, Autodesk Exchange and, Home)</li> </ul>                                                                                                                                                                                                                   |
| Week 2 | <b>GETTING STARTED WITH AUTOCAD</b> <ul style="list-style-type: none"> <li>• Dynamic Input Mode (Enable Pointer Input, Enable Dimension Input where possible, Show command prompting and command input near the crosshairs and, Drafting Tooltip Appearance)</li> <li>• Drawing Lines in AutoCAD (The Close Option and, The Undo Option)</li> <li>• Invoking tools Using Dynamic INPUT/Command Prompt Coordinate Systems (Absolute Coordinate System, Relative Coordinate System, Relative Polar Coordinates, Direct Distance Entry, Erasing Objects and, Cancelling and Undoing a Command)</li> <li>• Object Selection Methods (Window Selection, Window Crossing Method, Drawing a Circle and, BASIC Display Commands)</li> <li>• Setting Units Type and Precision (Specifying the Format and, Specifying the Angle Format)</li> <li>• SETTING the Limits OF A DRAWING</li> </ul>                                                                                                                                                                                                                                                                                                           |
| Week 3 | <b>STARTING WITH ADVANCED SKETCHING</b><br>( Drawing Arcs, Drawing Rectangles, Drawing Ellipses, Drawing Regular Polygon, Drawing Polylines, Placing Points, Drawing Infinite Lines and, Writing a Single Line Text)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Week 4 | <b>WORKING WITH DRAWING AIDS</b> <ul style="list-style-type: none"> <li>• Introduction</li> <li>• Understanding the Concept and use of LAYERS (Advantages of Using Layers)</li> <li>• Working with Layers (Creating New Layers, Making a Layer Current, Controlling the Display of Layers and Deleting Layers)</li> <li>• Object Properties (Changing the Color, Changing the Line type, Changing the Line weight, Changing the Plot Style, Properties Palette and, Quick Properties Palette)</li> <li>• Drafting Settings dialog box (Setting Grid, Setting Snap and, Snap Type)</li> <li>• Drawing Straight Lines using the Ortho Mode</li> <li>• Working with Object Snaps (Auto Snap, Endpoint, Midpoint, Nearest, Centre, Tangent, Quadrant, Intersection, Apparent Intersection, Perpendicular, Node, Insertion, Snap to None, Parallel, Extension, From, Midpoint between 2 Points, Temporary Tracking Point, Combining Object Snap Modes)</li> <li>• Running Object Snap Mode (Overriding the Running Snap and, Cycling through Snaps)</li> <li>• Using Auto Tracking (Object Snap Tracking, Polar Tracking and, Auto Track Settings)</li> <li>• Function and Control Keys</li> </ul> |
| Week 5 | <b>EDITING SKETCHED OBJECTS-I</b><br>Editing Sketches<br>Moving the Sketched Objects<br>Copying the Sketched Objects (Creating Multiple Copies, Creating a Single Copy, Offsetting Sketched Objects, Rotating Sketched Objects, Scaling the Sketched Objects, Filletting the Sketches, Chamfering the Sketches, Trimming the Sketched Objects, Extending the Sketched Objects, Stretching the Sketched Objects and, Lengthening the Sketched Objects)<br>Arraying the Sketched Objects (Rectangular Array, Polar Array and, Path Array)<br>Mirroring the Sketched objects (Text Mirroring)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Week 6 | <b><u>EDITING SKETCHED OBJECTS-II</u></b><br><b>Introduction to Grips</b><br><b>Types of Grips (Editing a Polyline by Using Grips, Editing Gripped Objects, Changing</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | <p><b>the Properties Using the PROPERTIES Pale, Matching the Properties of Sketched Objects and, Cycling Through Selection)</b></p> <p><b>Managing Contents Using the Design enter (Autodesk Seek design content Link, Displaying Drawing Properties, Basic Display Options, Redrawing the Screen and, Regenerating Drawings )</b></p> <p><b>Zooming Drawings (Real-time Zooming, All Option, Centre Option, Extents Option, Dynamic Option, Previous Option, Window Option, Scale Option, Object Option and, Zoom In and Out)</b></p> <p><b>Panning Drawings (Panning in Real time)</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Week 7 | <p><b>CREATING TEXT AND TABLES</b></p> <ul style="list-style-type: none"> <li>• Annotative Objects</li> <li>• Annotation Scale (Assigning Annotative Property and Annotation Scales and ,Customizing Annotation Scale)</li> <li>• Multiple Annotation Scales (Assigning Multiple Annotation Scales Manually and, Assigning Multiple Annotation Scales Automatically)</li> <li>• Controlling the Display of Annotative objects</li> <li>• Creating Text (Writing Single Line)</li> <li>• Text Entering Special Characters</li> <li>• Creating Multiline Text (Text Window and,Text Editor Tab)</li> <li>• Editing Text (Editing Text Using the DDEDIT Command, Editing Text Using the Properties Palette and, Modifying the Scale of the Text)</li> <li>• Inserting Table in the Drawing (Table style Area, Insert options Area, Insertion behaviour Area, Column and row settings Area and, Set cell styles Area)</li> <li>• Creating a New Table Style (Starting table Area, General Area, Cell styles Area, Setting a Table Style as Current, Modifying a Table Style, Modifying Tables, Substituting Fonts, Specifying an Alternate Default Font, Creating Text Styles, Determining Text Height and, Creating Annotative text)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Week 8 | <p><b>BASIC DIMENSIONING, GEOMETRIC DIMENSIONING, AND TOLERANCING</b></p> <ul style="list-style-type: none"> <li>• Need for Dimensioning</li> <li>• Dimensioning in AutoCAD Fundamental</li> <li>• Dimensioning Terms (Dimension Line, Dimension Text, Arrowheads Extension Lines, Leader, Centre Mark and Centrelines, Alternate Units, Tolerances, Limits, Associative Dimensions, Definition Points, Annotative Dimensions, Selecting Dimensioning Commands, Using the Ribbon and the Toolbar, Using the Command Line and, Dimensioning a Number of Objects Together)</li> <li>• Creating Linear Dimensions ( DIMLINEAR Command Options, Creating Aligned Dimensions, Creating Arc Length Dimensions, Creating Rotated Dimensions, Creating Baseline Dimensions, Creating Continued Dimensions, Creating Angular Dimensions, Dimensioning the Angle between Two Nonparallel Lines and, Dimensioning the Angle of an Arc)</li> <li>• Angular Dimensioning of Circles (Angular Dimensioning based on Three Points, Creating Diameter Dimensions, Creating Radius Dimensions, Creating Jogged Linear Dimensions, Creating Ordinate Dimensions and, Maintaining Equal Spacing between Dimensions )</li> <li>• Creating Inspection Dimensions (Inspection Label and, Dimension Value)</li> <li>• Working with True Associative Dimensions (Inspection Rate, Removing the Dimension Associatively, Converting a Dimension into a True Associative Dimension, Drawing Leaders, Multileader, Adding leaders to existing Multileader and, Removing Leaders from Existing Multileader)</li> <li>• Aligning Multi-leaders (Distribute, Make leader segments Parallel, Specify Spacing and, Use current spacing)</li> <li>• Geometric Dimensioning and Tolerance</li> <li>• Geometric Characteristics and Symbols</li> <li>• Adding Geometric Tolerance (Feature Control Frame, Geometric Characteristics Symbol, Tolerance Value and Tolerance Zone Descriptor , Material Condition Modifier and, Datum)</li> <li>• Complex Feature Control Frames (Composite Position Tolerance, Projected Tolerance Zone and, Creating Annotative Dimensions, Tolerances, Leaders, and Multi-leaders)</li> </ul> |
| Week 9 | <p><b>EDITING DIMENSIONS</b></p> <ul style="list-style-type: none"> <li>• Editing Dimensions Using Editing Tools (Editing Dimensions by Stretching, Editing Dimensions by Trimming and Extending, Flipping Dimension Arrow, Modifying the</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | Dimensions, Editing the Dimension Text, Updating Dimensions, Editing Dimensions with Grips, Editing Dimensions using the Properties Palette, Properties Palette (Dimension), Properties Palette (Multileader) and, Model Space and Paper Space Dimensioning)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Week 10 | <b>DIMENSION STYLES, MULTILEADER STYLES, AND SYSTEM VARIABLES</b><br>(Using Styles and Variables to Control Dimensions, Creating and Restoring Dimension Styles, New Dimension Style dialog box, Controlling the Dimension Text Format, Fitting Dimension Text and Arrowheads, Formatting Primary Dimension Units, Formatting Alternate Dimension Units, Formatting the Tolerances, Creating and Restoring Multileader Styles and, Modify Multileader Style dialog box )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Week 11 | <b>MODEL SPACE VIEWPORTS, PAPER SPACE VIEWPORTS, AND LAYOUTS</b> <ul style="list-style-type: none"> <li>• Model Space and Paper Space/Layouts</li> <li>• Model Space Viewports (Tiled Viewports) (Creating Tiled Viewports)</li> <li>• Making a Viewport Current</li> <li>• Joining Two Adjacent Viewports</li> <li>• Paper space viewports (Floating Viewports) (Creating Floating Viewports, Creating Rectangular Viewports, Creating Polygonal Viewports and, Converting an Existing Closed Object into a Viewport</li> <li>• Temporary Model Space</li> <li>• Editing Viewports (Controlling the Display of Objects in Viewports , Locking the Display of Objects in Viewports, Controlling the Display of Hidden Lines in Viewports, Clipping Existing Viewports, Maximizing Viewports, Inserting Layouts, Inserting a Layout Using the Wizard, Defining Page Settings and, Controlling the Display of Annotative Objects in Viewports)</li> </ul> |
| Week 12 | EXAM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Week 13 | <b>PLOTTING DRAWINGS</b> <ul style="list-style-type: none"> <li>• Plotting Drawings in AutoCAD</li> <li>• Plotting Drawings Using the Plot Dialog Box (Page setup Area, Printer/plotter Area, Paper size Area, Number of copies Area, Plot area, Plot offset (origin set to printable area) Area, Plot scale Area, Plot style table (pen assignments) Area, Shaded viewport options Area, Plot options Area and, Preview)</li> <li>• Adding Plotters ( The Plotter Manager Tool)</li> <li>• Using Plot Styles (Adding a Plot Style)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                          |
| Week 14 | <b>HATCHING DRAWINGS</b> <ul style="list-style-type: none"> <li>• Hatching (Hatch Patterns and, Hatch Boundary)</li> <li>• Hatching Drawings Using the Hatch Tool</li> <li>• Panels in the Hatch Creation Tab (Boundaries Panel, Pattern Panel, Properties Panel, Origin Panel, Options Panel, Match Properties and, Setting the Parameters for Gradient Pattern)</li> <li>• Creating Annotative Hatch</li> <li>• Hatching the Drawing Using the Tool Palettes (Drag and Drop Method and, Select and Place Method)</li> <li>• Hatching Around Text, Dimensions, and Attributes</li> </ul>                                                                                                                                                                                                                                                                                                                                                               |
| Week 15 | <b>WORKING WITH BLOCKS</b> <ul style="list-style-type: none"> <li>• The Concept of Blocks (Advantages of Using Blocks, Drawing Objects for Blocks and, Converting Entities into a Block)</li> <li>• Inserting Blocks</li> <li>• Creating and Inserting Annotative Blocks (Block Editor)</li> <li>• Adding Blocks in Tool Palettes (Drag and Drop Method, Modifying Existing Blocks in the Tool Palettes, Layers, Colors, Line types, and Line weights for Blocks and, Nesting of Blocks)</li> <li>• Creating Drawing Files using the Write Block Dialog Box (Exploding Blocks Using the XPLODE Command, Renaming Blocks, Deleting Unused Blocks and, Editing Constraints to Blocks)</li> </ul>                                                                                                                                                                                                                                                          |

### Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

Material Covered

### Learning and Teaching Resources

مصادر التعلم والتدريس

Text

Available in the

|                   |                                                                                                            |          |
|-------------------|------------------------------------------------------------------------------------------------------------|----------|
|                   |                                                                                                            | Library? |
| Required Texts    | • User's Reference Volume II Published By: Autodesk, Inc.                                                  | No       |
| Recommended Texts | • Autodesk 3ds Max 2025 Basics Guide By Kelly L. Murdock<br>• Autodesk 3ds Max 2022 Fundamentals By ASCENT | No       |
| Websites          |                                                                                                            |          |

#### Grading Scheme

مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A – Excellent    | امتياز              | 90 – 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 – 89   | Above average with some errors        |
|                             | C – Good         | جيد                 | 70 – 79   | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 – 69   | Fair but with major shortcomings      |
|                             | E – Sufficient   | مقبول               | 50 – 59   | Work meets minimum criteria           |
| Fail Group<br>(0 – 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

#### Module Information

معلومات المادة الدراسية

|                                    |                           |                          |                                                                                                                                                                                                                                          |                                        |                      |
|------------------------------------|---------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------|
| Module Title                       | English language I        |                          | Module Delivery                                                                                                                                                                                                                          |                                        |                      |
| Module Type                        | <u>B</u>                  |                          | <input checked="" type="checkbox"/> Theory<br><input checked="" type="checkbox"/> Lecture<br><input type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial<br><input type="checkbox"/> Practical<br><input type="checkbox"/> Seminar |                                        |                      |
| Module Code                        | <u>UOBABb1101</u>         |                          |                                                                                                                                                                                                                                          |                                        |                      |
| ECTS Credits                       | <u>2</u>                  |                          |                                                                                                                                                                                                                                          |                                        |                      |
| SWL (hr/sem)                       | <u>50</u>                 |                          |                                                                                                                                                                                                                                          |                                        |                      |
| Module Level                       |                           | UGx11                    |                                                                                                                                                                                                                                          |                                        | Semester of Delivery |
| Administering Department           |                           | Architecture Engineering | College                                                                                                                                                                                                                                  | University of Babylon                  |                      |
| Module Leader                      | Professor: Muayad Mingher |                          | e-mail                                                                                                                                                                                                                                   | eng. muayad mingher@uobabylon. edu. Iq |                      |
| Module Leader’s Acad. Title        |                           | Professor                | Module Leader’s Qualification                                                                                                                                                                                                            |                                        | M.A.                 |
| Module Tutor                       | Name (if available)       |                          | e-mail                                                                                                                                                                                                                                   | eng. muayad mingher@uobabylon. edu. Iq |                      |
| Peer Reviewer Name                 |                           | Name                     | e-mail                                                                                                                                                                                                                                   | eng. muayad mingher@uobabylon. edu. Iq |                      |
| Scientific Committee Approval Date |                           | 01/06/2023               | Version Number                                                                                                                                                                                                                           |                                        | 1.0                  |

#### Relation with other Modules

العلاقة مع المواد الدراسية الأخرى

|                      |      |          |  |
|----------------------|------|----------|--|
| Prerequisite module  | None | Semester |  |
| Co-requisites module | None | Semester |  |

#### Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                      | The course aims to develop the student's ability to deal with the English language in the areas of pronunciation, dialogue, and principles of writing. As the student had received in his previous studies in the secondary stage a wide range of principles in English grammar, pronunciation and reading, but he did not have the opportunity Sufficient to develop his other language skills, which cannot be enriched through practice and training. Therefore, emphasis is placed on reading a, training on new terms, how to deal with them, spelling and dictation laws in English, and the principles of writing through writing some short passages. In an attempt to bring the topic closer to the architectural study of the student, focus on reading and writing subjects of an architectural nature, and train the student on the student on the architectural terminology correctly and identify them when reading the architectural texts in an attempt to keep him away from the common error in direct translation, in which texts lose their literary, intellectual and conceptual value. |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية | <ol style="list-style-type: none"> <li>1. Increase the students' awareness of correct usage of English grammar in writing and speaking</li> <li>2. Improve their speaking ability in English both in terms of fluency and comprehensibility</li> <li>3. Give oral presentations and receive feedback on their performance</li> <li>4. Increase their reading speed and comprehension. Students will improve their reading fluency skills through extensive reading.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Indicative Contents<br>المحتويات الإرشادية                | <ol style="list-style-type: none"> <li>1. Developing students' skills in reflective practice and creative thinking.</li> <li>2. Growing the students' abilities in building sentences.</li> <li>3. Knowing some significant aspects of British culture while improving the students' English language skills.</li> <li>4. Improving accuracy in reading and writing.</li> <li>5. Using a wider range of vocabulary to express their views.</li> <li>6. Students will be required to participate in activities.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

#### Learning and Teaching Strategies استراتيجيات التعلم والتعليم

|            |                                                                                                                                                                                                                                                                                                                                                                                              |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategies | The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering type of simple experiments involving some sampling activities that are interesting to the students. |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### Student Workload (SWL) الحمل الدراسي للطالب

|                                                                         |     |                                                                     |     |
|-------------------------------------------------------------------------|-----|---------------------------------------------------------------------|-----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطالب خلال الفصل       | 33  | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطالب أسبوعياً       | 2.2 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطالب خلال الفصل | 17  | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطالب أسبوعياً | 1.2 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطالب خلال الفصل              | 200 |                                                                     |     |

#### Module Evaluation تقييم المادة الدراسية

|                      |                 | Time/Number | Weight (Marks)   | Week Due | Relevant Learning Outcome |
|----------------------|-----------------|-------------|------------------|----------|---------------------------|
| Formative assessment | Quizzes         | 1           | 5% (5)           | 5, 10    | LO #1, 2, 10 and 11       |
|                      | Assignments     | 1           | 5% (5)           | 2, 12    | LO # 3, 4, 6 and 7        |
|                      | Projects / Lab. | /           | /                | /        | /                         |
|                      | Report          | /           | /                | /        | /                         |
| Summative assessment | Midterm Exam    | 2 hr        | 40% (40)         | 7        | LO # 1-7                  |
|                      | Final Exam      | 3hr         | 50% (50)         | 16       | All                       |
| Total assessment     |                 |             | 100% (100 Marks) |          |                           |

### Delivery Plan (Weekly Syllabus)

المناهج الأسبوعي النظري

|         | Material Covered                                                                      |
|---------|---------------------------------------------------------------------------------------|
| Week 1  | Unit One : Hello / Grammar;. Vocabulary; Skills Work and Everyday English             |
| Week 2  | Unit Two : Your World / Grammar; Vocabulary; Skills Work and Everyday English..       |
| Week 3  | Unit Three: : All about you/ Grammar; Vocabulary; Skills Work and Everyday English..  |
| Week 4  | Unit Four: Family and Friends/ Grammar; Vocabulary; Skills Work and Everyday English. |
| Week 5  | Unit Five: The way I live / Grammar; Vocabulary; Skills Work and Everyday English.    |
| Week 6  | .Unit Six: Every Day/ Grammar; Vocabulary; Skills Work and Everyday English.          |
| Week 7  | Unit Seven: Places I Like / Grammar; Vocabulary; Skills Work and Everyday English.    |
| Week 8  | Midterm Exam.                                                                         |
| Week 9  | Unit Eight: Where I live: / Grammar; Vocabulary; Skills Work and Everyday English.    |
| Week 10 | Unit Nine: Happy Birthday!: Grammar; Vocabulary; Skills Work and Everyday English.    |
| Week 11 | Unit Ten: We had a good time!: Grammar; Vocabulary; Skills Work and Everyday English. |
| Week 12 | Unit Eleven: We can do it! Grammar; Vocabulary; Skills Work and Everyday English. .   |
| Week 13 | Unit Twelve :Thank you!: Grammar; Vocabulary; Skills Work and Everyday English.       |
| Week 14 | Rapid Review.                                                                         |
| Week 15 | Examination                                                                           |

### Delivery Plan (Weekly Lab. Syllabus)

المناهج الأسبوعي للمختبر

|  | Material Covered |
|--|------------------|
|--|------------------|

### Learning and Teaching Resources

مصادر التعلم والتدريس

|                   | Text                                                                                      | Available in the Library? |
|-------------------|-------------------------------------------------------------------------------------------|---------------------------|
| Required Texts    | New Headway Plus Beginner Student's Book                                                  | No                        |
| Recommended Texts | English Grammar in Use.                                                                   | No                        |
| Websites          | <a href="https://elt.oup.com">https://elt.oup.com</a> > ... > New Headway Plus > Beginner |                           |

### Grading Scheme

مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A - Excellent    | امتياز              | 90 – 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 – 89   | Above average with some errors        |
|                             | C – Good         | جيد                 | 70 – 79   | Sound work with notable errors        |
|                             | D – Satisfactory | متوسط               | 60 – 69   | Fair but with major shortcomings      |
|                             | E - Sufficient   | مقبول               | 50 – 59   | Work meets minimum criteria           |
| Fail Group<br>(0 – 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

### Module Information

معلومات المادة الدراسية

|                                    |                                   |                          |                               |                                                                                                                                                                                                                                   |       |
|------------------------------------|-----------------------------------|--------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Module Title                       | Architectural Design & graphic I  |                          |                               | Module Delivery                                                                                                                                                                                                                   |       |
| Module Type                        | C                                 |                          |                               | <div><input checked="" type="checkbox"/> Theory<br/>Lecture<br/><input type="checkbox"/> Lab<br/>x<input type="checkbox"/> Tutorial<br/><input checked="" type="checkbox"/> Practical<br/><input type="checkbox"/>x Seminar</div> |       |
| Module Code                        | UOBAB0106025                      |                          |                               |                                                                                                                                                                                                                                   |       |
| ECTS Credits                       | 12                                |                          |                               |                                                                                                                                                                                                                                   |       |
| SWL (hr/sem)                       | 300                               |                          |                               |                                                                                                                                                                                                                                   |       |
| Module Level                       |                                   | UGI                      | Semester of Delivery          |                                                                                                                                                                                                                                   | 2     |
| Administering Department           |                                   | Architecture Engineering | College                       | University of Babylon                                                                                                                                                                                                             |       |
| Module Leader                      | Name: Ph.D.Mahmood rezooky janjun |                          | e-mail                        | E-mail                                                                                                                                                                                                                            |       |
| Module Leader’s Acad. Title        |                                   | Professor                | Module Leader’s Qualification |                                                                                                                                                                                                                                   | Ph.D. |
| Module Tutor                       | Name (:Mahmood rezooky janjun)    |                          | e-mail                        | E-mail:<br>eng.mahmood.rezooky@uobabylon.edu.iq                                                                                                                                                                                   |       |
| Peer Reviewer Name                 |                                   | Name: Ph.D. ola.abid     | e-mail                        | E-mail: eng.ola.abid@uobabylon.edu.iq                                                                                                                                                                                             |       |
| Scientific Committee Approval Date |                                   | 01/06/2023               | Version Number                |                                                                                                                                                                                                                                   | 1.0   |

| Relation with other Modules<br>العلاقة مع المواد الدراسية الأخرى |   |          |   |
|------------------------------------------------------------------|---|----------|---|
| Prerequisite module                                              | c | Semester | 3 |
| Co-requisites module                                             | c | Semester |   |

| Module Aims, Learning Outcomes and Indicative Contents<br>أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                                                                               | <p>تهيئة الطالب لدخول عالم العمارة فكريا ومفاهيميا وعلميا كقاعدة عمل أساسية ,وتعريفه بمفهوم العمارة من خلال التعرف على مبادئ التصميم والتكوين والبعد الثالث والفضاء المعماري والمقياس الانساني ومحيط البيئة الحضرية وغيرها . وتنمية لغة التعبير لدى الطالب عن تلك المفردات وغيرها . ويركز الموضوع ايضا على تنمية الحس الفني والتكويني لديه ونمط التفكير التحليلي –التركيبى فضلا عن تنمية ادراكه وتحسسه للبيئة الطبيعية والعمرانية واحترامها ابتداء من ادراك وتنوq البيئة لحضرية ودراسة العلاقات التكوينية والتشكيلية والاحراجية لعناصرها ومكوناتها</p> <p>Preparing the student to enter the world of architecture intellectually, conceptually and scientifically as a basic work base, and introducing him to the concept of architecture by identifying the principles of design, composition, the third dimension, the architectural space, the human scale, the surroundings of the urban environment, and others. And the development of the student's language of expression for those vocabulary and others. The subject also focuses on developing his artistic and formative sense and the analytical-synthetic thinking style, as well as developing his perception and sensitivity to the natural and urban environment and respecting it, starting from realizing and appreciating the urban environment and studying the formative, formative and directive relationships of its elements and components.</p> <p>يعد الرسم المعماري احد اهم وسائل التعبير عن افكار المعماري التصميمية . ولذلك فان المادة تهدف الى بناء مهارات الطالب التعبيرية بالاضافة الى تدريبه على استخدام المواد والتقنيات المختلفة في الاظهار ( presentation ) ويركز الموضوع على البناء التدريجي لمهارات الطالب من خلال التسلسل الواضح للتمرين ابتداء من التمارين ال بسيطة والخط ووصولا الى الرسومات ذات البعدين (Two Dimensional Drawings) المتمثلة بالمساقط والعمودية (Sections and Elevations plans).</p> <p>architectural drawing is one of the most important means of expressing the architect's ideas. Therefore, the course aims to build and develop the student's expressive skills, in addition to training him on the use of different materials and techniques in presentation. The subject focuses on the gradual building of the student's skills through a clear sequence of exercises, starting from exercises related to line values and ending with two-dimensional drawings (Two Dimensional Drawings). ) represented by the horizontal and vertical plans (Sections and Elevations plans).</p> |

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية | <p>The student is prepared through architectural design and drawing for a full year, after which he is able to use all that he has learned from calligraphy technique, binary and triple formation in addition to the human scale, the basics of architectural design, then he can identify the elements of architectural design and learn the principles of architectural design. He then qualifies in a simple form for architectural criticism. And guidance to design something primitive for a simple project. Where it is fully prepared for it in terms of the student's ability to design what is required of him in a way that leads to his development later in the second stage</p> <p>يتهيئ الطالب من خلال التصميم والرسم المعماري لمدة سنة كاملة حيث يتمكن بعدها من استخدام كل ما تعلمه من تقنيات الخط والتكوين الثنائي والثلاثي إضافة إلى المقياس الإنساني أساسيات التصميم المعماري ثم يستطيع بعدها التعرف على عناصر التصميم المعماري وتعلم مبادئ التصميم المعماري. يتأهل بعدها بشكل بسيط للنقد المعماري والتوجيه لتصميم شيء بدائي لمشروع بسيط. حيث يكون متهيئاً لها بشكل كامل من حيث قدرة الطالب على تصميم ما مطلوب منه بشكل يؤدي إلى أن يتطور لاحقاً في المرحلة الثانية</p> |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Indicative Contents<br>المحتويات الإرشادية | <p>Developing the capabilities of the student's artistic (20hrs( architectural creative thinking by developing his architectural information (20hrs( developing his drawing capabilities (10hrs( building his architectural memory by viewing architectural products with pictures and videos. ( 10hrs( Learn how to show by professional hand drawing and in different styles, watercolors, acrylic markers, etc (10hrs ( Performing all that is required of drawing class assignments from drawing projects in all their stages and showing them at a high professional level through manual drawing) (30hrs (</p> <p>تنمية قدرات الطالب الفنية (20 ساعة). التفكير الإبداعي المعماري من خلال تطوير معلوماته المعمارية (20 ساعة) تطوير قدراته في الرسم (10 ساعات). بناء ذاكرته المعمارية من خلال عرض المنتجات المعمارية بالصور والفيديو. (10 ساعات) تعلم كيفية العرض من خلال الرسم اليدوي الاحترافي وبأشكال مختلفة ، وألوان مائية ، وأقلام تحديد أكريليك ، وما إلى ذلك (10 ساعات) القيام بكل ما هو مطلوب من رسم الواجبات الصفية من رسم المشاريع في جميع مراحلها وإظهارها على مستوى احترافي عالٍ من خلال الرسم اليدوي (30 ساعة).</p> |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Learning and Teaching Strategies<br>استراتيجيات التعلم والتعليم |                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategies                                                      | Type something like: The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering type of simple experiments involving some sampling activities that are interesting to the students. |

| Student Workload (SWL)<br>الحمل الدراسي للطالب                          |     |                                                                     |    |
|-------------------------------------------------------------------------|-----|---------------------------------------------------------------------|----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطالب خلال الفصل       | 180 | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطالب أسبوعياً       | 12 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطالب خلال الفصل | 120 | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطالب أسبوعياً | 8  |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطالب خلال الفصل              | 300 |                                                                     |    |

| Module Evaluation Architectural Design I<br>تقييم المادة الدراسية |
|-------------------------------------------------------------------|
|-------------------------------------------------------------------|

|                      |                 | Time/Number | Weight (Marks) | Week Due            | Relevant Learning Outcome |
|----------------------|-----------------|-------------|----------------|---------------------|---------------------------|
| Formative assessment | Quizzes         |             |                |                     |                           |
|                      | Assignments     | 10          | 25% (25)       | 2, 4,5,6,7, 9,10,11 |                           |
|                      | Projects / Lab. | 2           | 15% (15)       | Continuous          |                           |
|                      | Report          |             |                |                     |                           |
| Summative assessment | Midterm Exam    | 2           | 10%            | 12,14               |                           |
|                      | Final Exam      |             |                |                     | All                       |
| Total assessment     |                 |             | 50% (50 Marks) | Total assessment    | 50% (50 Marks)            |

### Module Evaluation Architectural Drawing I

تقييم المادة الدراسية

|                      |                 | Time/Number | Weight (Marks) | Week Due         | Relevant Learning Outcome |
|----------------------|-----------------|-------------|----------------|------------------|---------------------------|
| Formative assessment | Quizzes         |             |                |                  |                           |
|                      | Assignments     | 5           | 25% (25)       | 2, 5, ,7 ,10,11  |                           |
|                      | Projects / Lab. | 4           | 20% (20)       | Continuous       |                           |
|                      | Report          |             |                |                  |                           |
| Summative assessment | Midterm Exam    | 2           | 10% (10)       | 8, 14            |                           |
|                      | Final Exam      |             |                |                  | All                       |
| Total assessment     |                 |             | 50% (50 Marks) | Total assessment | 50% (50 Marks)            |

### Delivery Plan (Weekly Syllabus)

المناهج الاسبوعي النظري

### Delivery Plan (Weekly Lab. Syllabus)

المناهج الاسبوعي للمختبر

|         |                                                                     |
|---------|---------------------------------------------------------------------|
| Week 1  | Quality of lines in free hand and to scale by measuring instruments |
| Week 2  | Composition fundamentals in pencil graphic shade                    |
| Week 3  | Composition fundamentals in collage                                 |
| Week 4  | Composition types                                                   |
| Week 5  | Color circle                                                        |
| Week 6  | Composition in color                                                |
| Week 7  | The abstraction                                                     |
| Week 8  | 2D composition abstraction – prelim                                 |
| Week 9  | Pre- final                                                          |
| Week 10 | Final 2D composition of abstraction                                 |
| Week 11 | Day Sketch                                                          |
| Week 12 | 3D composition                                                      |
| Week 13 | Human                                                               |

### Learning and Teaching Resources

مصادر التعلم والتدريس

|                   | Text                                                                                | Available in the Library? |
|-------------------|-------------------------------------------------------------------------------------|---------------------------|
| Required Texts    |                                                                                     | Yes                       |
| Recommended Texts | Neufert Architecture s Data<br>Architectural Design Data-<br>Landscape Architectre- | No                        |

|          |                                                 |  |
|----------|-------------------------------------------------|--|
|          | Site construction Details-<br>Pencil Sketching- |  |
| Websites |                                                 |  |

### Grading Scheme

مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A - Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                             | C - Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                             | E - Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 - 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

### المستوى الثاني – الفصل الاول

### MODULE DESCRIPTION FORM

### نموذج وصف المادة الدراسية

#### Module Information

معلومات المادة الدراسية

|                                    |                          |                 |                               |                                                                                                                                                                                                                            |       |
|------------------------------------|--------------------------|-----------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Module Title                       | Building Construction II |                 |                               | Module Delivery                                                                                                                                                                                                            |       |
| Module Type                        | C                        |                 |                               | <input checked="" type="checkbox"/> Theory<br>Lecture<br><input checked="" type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial<br><input checked="" type="checkbox"/> Practical<br><input type="checkbox"/> Seminar |       |
| Module Code                        | Arch2316                 |                 |                               |                                                                                                                                                                                                                            |       |
| ECTS Credits                       | 4                        |                 |                               |                                                                                                                                                                                                                            |       |
| SWL (hr/sem)                       | 100                      |                 |                               |                                                                                                                                                                                                                            |       |
| Module Level                       |                          | UGII            | Semester of Delivery          |                                                                                                                                                                                                                            | 3     |
| Administering Department           |                          | Type Dept. Code | College                       | Type College Code                                                                                                                                                                                                          |       |
| Module Leader                      | Name: Rewa menaf         |                 | e-mail                        | E-mail;<br>eng.rawaaabd.alshalah@uobabylon.edu.iq                                                                                                                                                                          |       |
| Module Leader's Acad. Title        |                          | Professor       | Module Leader's Qualification |                                                                                                                                                                                                                            | Ph.D. |
| Module Tutor                       | Name (if available)      |                 | e-mail                        | E-mail                                                                                                                                                                                                                     |       |
| Peer Reviewer Name                 |                          | Name            | e-mail                        | E-mail                                                                                                                                                                                                                     |       |
| Scientific Committee Approval Date |                          | 01/06/2023      | Version Number                |                                                                                                                                                                                                                            | 1.0   |

#### Relation with other Modules

العلاقة مع المواد الدراسية الأخرى

|                      |      |          |  |
|----------------------|------|----------|--|
| Prerequisite module  | None | Semester |  |
| Co-requisites module | None | Semester |  |

#### Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

|             |                                                                                         |
|-------------|-----------------------------------------------------------------------------------------|
| Module Aims | The aim of this subject is to learn students the technology of building construction as |
|-------------|-----------------------------------------------------------------------------------------|

|                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| أهداف المادة الدراسية                                           | <p>architect need to know about for the purpose of improve their design ability , all that could be done throughout understanding building and construction main elements beside the secondary ones toward the full understanding the whole building construction details and components . As students completed this program they will have the ability to understand and know the building structural function , realize the suitable construction materials that match with building type , find out the relation between construction materials and surround environment , recognize building types and the suitable structure system for each types ,drawing architectural details .</p> <p>The program includes many site visits to projects under construction, and students will be asked to follow out the construction process of simple residential unit and submit a report.</p> |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية       | Type something like: The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering type of simple experiments involving some sampling activities that are interesting to the students.                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Indicative Contents<br>المحتويات الإرشادية                      | <p>building construction (3hr)</p> <p>Building process- construction types (6hr)</p> <p>Structural systems ( load bearing walls- skeleton frame) (6hr)</p> <p>Foundation construction (3hr)</p> <p>Foundations types (6hr)</p> <p>Foundations details (3hr)</p> <p>Structural elements – walls (4hr)</p> <p>Walls construction methods (3hr)</p> <p>Walls details, lintels, openings in wall (3hr)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Learning and Teaching Strategies<br>استراتيجيات التعلم والتعليم |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Strategies                                                      | Type something like: The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering type of simple experiments involving some sampling activities that are interesting to the students.                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

| Student Workload (SWL)<br>الحمل الدراسي للطالب                          |     |                                                                    |     |
|-------------------------------------------------------------------------|-----|--------------------------------------------------------------------|-----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطالب خلال الفصل       | 63  | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطالب أسبوعيا       | 4.2 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطالب خلال الفصل | 37  | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطالب أسبوعيا | 2.4 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطالب خلال الفصل              | 100 |                                                                    |     |

| Module Evaluation<br>تقييم المادة الدراسية |                 |             |                  |            |                           |
|--------------------------------------------|-----------------|-------------|------------------|------------|---------------------------|
|                                            |                 | Time/Number | Weight (Marks)   | Week Due   | Relevant Learning Outcome |
| Formative assessment                       | Quizzes         | 2           | 5% (5)           | 5, 10      | LO #1, 2, 10 and 11       |
|                                            | Assignments     | 2           | 10% (10)         | 2, 12      | LO # 3, 4, 6 and 7        |
|                                            | Projects / Lab. | 2           | 10% (10)         | Continuous |                           |
|                                            | Report          |             |                  |            |                           |
| Summative assessment                       | Midterm Exam    | 2 hr        | 25% (25)         | 7          | LO # 1-7                  |
|                                            | Final Exam      | 32hr        | 50% (50)         | 16         | All                       |
| Total assessment                           |                 |             | 100% (100 Marks) |            |                           |

Delivery Plan (Weekly Syllabus)  
المنهاج الاسبوعي النظري

Delivery Plan (Weekly Lab. Syllabus)  
المنهاج الاسبوعي للمختبر

|         | Material Covered                                        |
|---------|---------------------------------------------------------|
| Week 1  | Introduction – building construction                    |
| Week 2  | Building process- construction types                    |
| Week 3  | Structural systems ( load bearing walls- skeleton frame |
| Week 4  | Foundation construction                                 |
| Week 5  | Foundations types                                       |
| Week 6  | Foundations details                                     |
| Week 7  | Structural elements – walls                             |
| Week 8  | Walls construction methods                              |
| Week 9  | Walls details, lintels, openings in wall                |
| Week 10 | Exam                                                    |
| Week 11 | Floors types                                            |
| Week 12 | Floor details                                           |
| Week 13 | Floor construction                                      |
| Week 14 | Floors details                                          |
| Week 15 | Exam                                                    |

Learning and Teaching Resources  
مصادر التعلم والتدريس

|                   | Text | Available in the Library? |
|-------------------|------|---------------------------|
| Required Texts    |      | Yes                       |
| Recommended Texts |      | No                        |
| Websites          |      |                           |

Grading Scheme  
مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A – Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                             | C – Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                             | E - Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 – 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |

Module Information  
معلومات المادة الدراسية

| Module Title | History of Architecture I | Module Delivery                                                                                                                                     |
|--------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Type  | Support                   | <input checked="" type="checkbox"/> Theory<br><input type="checkbox"/> Lecture<br><input type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial |
| Module Code  | Arch2305                  |                                                                                                                                                     |
| ECTS Credits | 4                         |                                                                                                                                                     |

|                                    |                           |                               |                                                                                   |       |
|------------------------------------|---------------------------|-------------------------------|-----------------------------------------------------------------------------------|-------|
| SWL (hr/sem)                       | 100                       |                               | <input type="checkbox"/> Practical<br><input checked="" type="checkbox"/> Seminar |       |
| Module Level                       | UGII                      | Semester of Delivery          |                                                                                   | 3     |
| Administering Department           | Architectural department  | College                       | College of engineering                                                            |       |
| Module Leader                      | Name: Mahmood Amer Chabuk | e-mail                        | E-mail: mahmoodchabuk@gmail.com                                                   |       |
| Module Leader's Acad. Title        | Lecturer                  | Module Leader's Qualification |                                                                                   | Ph.D. |
| Module Tutor                       | N.A                       | e-mail                        | E-mail                                                                            |       |
| Peer Reviewer Name                 | N.A                       | e-mail                        | N.A                                                                               |       |
| Scientific Committee Approval Date | 01/06/2023                | Version Number                | 1.0                                                                               |       |

Relation with other Modules  
العلاقة مع المواد الدراسية الأخرى

|                      |      |          |  |
|----------------------|------|----------|--|
| Prerequisite module  | None | Semester |  |
| Co-requisites module | None | Semester |  |

Module Aims, Learning Outcomes and Indicative Contents  
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                      | <ol style="list-style-type: none"> <li>1. Learn about the history of architecture in Iraq</li> <li>2. To Learn about the emergence of the first civilizations and their settlements in the Mesopotamia Valley.</li> <li>3. Knowledge of architectural history gives an understanding of the ideas that were important to and shaped past societies.</li> <li>4. Learn about the most important architectural models in the Mesopotamian civilization.</li> <li>5. To study the Main features of architecture with examples.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية | <ol style="list-style-type: none"> <li>1. To trace the changes in architecture through various traditions, regions, stylistic, trends and dates.</li> <li>2. Understand how architecture influences society and its culture.</li> <li>3. List the various terms associated with electrical circuits.</li> <li>4. To pave the way for developing one's critical thinking skills.</li> <li>5. To inspire thinking in the architectural designing process.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Indicative Contents<br>المحتويات الإرشادية                | <p>Indicative content includes the following.</p> <p>-Introduction to History of architecture : [2 hr.].</p> <p>MESOPOTAMIA THE CRADLE OF CIVILIZATION—geology, rivers, and climate.</p> <p>Earliest settlements in Mesopotamia. [4 hr.].</p> <p>Main civilizations: Architectural features for each of Sumerians city-states, Akkadian architecture, NEO-SUMERIAN architecture -3rd Dynasty of Ur, Assyrian architecture Babylonian architecture. [8 hr.].</p> <p>-Mesopotamia under foreign rule- Architectural features for each of :</p> <p>Achaemenid &amp; Seleucid Architecture</p> <p>Parthian &amp; Sasanian Architecture. [3 hr.].</p> <p>-PRE-ISLAMIC ARAB-STATE IN IRAQ: [2 hr.].</p> <p>IRAQ AFTER ISLAM AL-KUFA CITY, IRAQ IN Umayyad Period “Ancient Wasit”,</p> <p>IRAQ IN ABBASID PERIOD “Round city of Baghdad”, Ancient Samarra. [8 hr.].</p> <p>-Reports depending on writing &amp; discussing Selected models of historical buildings. after the submission of the report , each student will present his work as a seminar . the seminar material will be depended in the final examination questions.. (10 hours a semester)</p> |

Learning and Teaching Strategies  
استراتيجيات التعلم والتعليم

|            |                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategies | Type something like: The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering type of simple experiments involving some sampling activities that are interesting to the students. |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Student Workload (SWL)<br>الحمل الدراسي للطلاب                          |     |                                                                    |      |
|-------------------------------------------------------------------------|-----|--------------------------------------------------------------------|------|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطلاب خلال الفصل       | 63  | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطلاب أسبوعيا       | 4.2  |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطلاب خلال الفصل | 37  | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطلاب أسبوعيا | 2.46 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطلاب خلال الفصل              | 100 |                                                                    |      |

| Module Evaluation<br>تقييم المادة الدراسية |                 |             |                  |          |                           |
|--------------------------------------------|-----------------|-------------|------------------|----------|---------------------------|
|                                            |                 | Time/Number | Weight (Marks)   | Week Due | Relevant Learning Outcome |
| Formative assessment                       | Quizzes         | .5          | 15% (5)          | 4, 8, 12 |                           |
|                                            | Assignments     | 3           | 15% (15)         | 3, 6, 13 |                           |
|                                            | Projects / Lab. | --          | --               | --       |                           |
|                                            | Report          | 1           | 10% (10)         | 15       |                           |
| Summative assessment                       | Midterm Exam    | 2 hr        | 10% (20)         | 6, 14    |                           |
|                                            | Final Exam      | 3hr         | 50% (50)         | 16       | All                       |
| Total assessment                           |                 |             | 100% (100 Marks) |          |                           |

| Delivery Plan (Weekly Syllabus)<br>المنهاج الأسبوعي النظري |                                                          |                                                                   |
|------------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------|
| Classwork –                                                | Material Covered -Part A                                 | Material Covered -Part B                                          |
| Week 1                                                     | Introduction to History of architecture                  | MESOPOTAMIA THE CRADLE OF CIVILIZATION                            |
| Week 2                                                     | Iraq—geology, rivers, and climate                        | Earliest settlements in Mesopotamia                               |
| Week 3                                                     | Sumerians city-states                                    | Akkadian architecture                                             |
| Week 4                                                     | NEO-SUMERIAN architecture -3 <sup>rd</sup> Dynasty of Ur | Assyrian architecture                                             |
| Week 5                                                     | Babylonian architecture                                  | General architectural features in the architecture of Mesopotamia |
| Week 6                                                     | Exam                                                     | Ancient Egyptian architecture                                     |
| Week 7                                                     | Mesopotamia under foreign rule-                          | Achaemenid Architecture                                           |
| Week 8                                                     | Seleucid Architecture                                    | Parthian Architecture                                             |
| Week 9                                                     | Sasanian Architecture                                    | PRE-ISLAMIC ARAB-STATE IN IRAQ                                    |
| Week 10                                                    | IRAQ AFTER ISLAM AL-KUFA CITY                            | Basrah city                                                       |
| Week 11                                                    | Scientific Trip                                          | IRAQ IN Umayyad Period “Ancient Wasit”                            |
| Week 12                                                    | IRAQ IN ABBASID PERIOD “Round city of Baghdad”           | Ancient Samarra                                                   |
| Week 13                                                    | Ukhaidir Fortress                                        | Madrasa & Khans                                                   |
| Week 14                                                    | Abbasid structural structures                            | Exam                                                              |
| Week 15                                                    | Discussion reports                                       | Discussion reports                                                |
| Week 16                                                    | Final exam                                               |                                                                   |

## Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

Material Covered

## Learning and Teaching Resources

مصادر التعلم والتدريس

|                   | Text                                                                                                                                                     | Available in the Library? |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Required Texts    | تاريخ فن العمارة العراقية في مختلف العصور : شريف يوسف<br>تاريخ العمارة عبر العصور : قبيلة المالكي.<br>Sir Banister Fletcher's: A History of Architecture | Yes                       |
| Recommended Texts | Babylon-The Great City: Olaf Pedersen.                                                                                                                   | No                        |
| Websites          |                                                                                                                                                          |                           |

## Grading Scheme

مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A - Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                             | C - Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                             | E - Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 - 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

## Module Information

معلومات المادة الدراسية

|                                    |                     |                          |                               |                                                                                                                                                                                                                            |       |
|------------------------------------|---------------------|--------------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Module Title                       | Computer II         |                          |                               | Module Delivery                                                                                                                                                                                                            |       |
| Module Type                        | B                   |                          |                               | <input checked="" type="checkbox"/> Theory<br>Lecture<br><input checked="" type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial<br><input checked="" type="checkbox"/> Practical<br><input type="checkbox"/> Seminar |       |
| Module Code                        | Arch2314            |                          |                               |                                                                                                                                                                                                                            |       |
| ECTS Credits                       | 3                   |                          |                               |                                                                                                                                                                                                                            |       |
| SWL (hr/sem)                       | 75                  |                          |                               |                                                                                                                                                                                                                            |       |
| Module Level                       |                     | UGIII                    | Semester of Delivery          |                                                                                                                                                                                                                            | 3     |
| Administering Department           |                     | Architecture Engineering | College                       | University of Babylon                                                                                                                                                                                                      |       |
| Module Leader                      | Dr.evan madhy hamza |                          | e-mail                        | Eng.evan.rubae@uobabylon.edu.iq                                                                                                                                                                                            |       |
| Module Leader’s Acad. Title        |                     | Professor                | Module Leader’s Qualification |                                                                                                                                                                                                                            | Ph.D. |
| Module Tutor                       | Name (if available) |                          | e-mail                        | E-mail                                                                                                                                                                                                                     |       |
| Peer Reviewer Name                 |                     | Name                     | e-mail                        | E-mail                                                                                                                                                                                                                     |       |
| Scientific Committee Approval Date |                     | 01/06/2023               | Version Number                |                                                                                                                                                                                                                            | 1.0   |

Relation with other Modules  
العلاقة مع المواد الدراسية الأخرى

|                      |      |          |  |
|----------------------|------|----------|--|
| Prerequisite module  | None | Semester |  |
| Co-requisites module | None | Semester |  |

Module Aims, Learning Outcomes and Indicative Contents  
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                      | <ol style="list-style-type: none"> <li>To provide students with fundamental knowledge of computer networks, network types, basic components, and essential cybersecurity concepts.</li> <li>To introduce students to electronic banking services and modern digital payment methods.</li> <li>To develop students' ability to identify and troubleshoot common hardware and software problems.</li> <li>To familiarize students with the basic concepts of Artificial Intelligence and its applications in daily life.</li> <li>To enhance students' understanding of the societal and ethical implications of AI, as well as future trends in AI technologies.</li> </ol> |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية | <ol style="list-style-type: none"> <li>Understand the basic concepts of networks, security, and electronic banking.</li> <li>Apply basic troubleshooting techniques to solve simple technical issues.</li> <li>Recognize basic concepts and applications of Artificial Intelligence.</li> <li>Understand the social and ethical impacts of AI.</li> </ol>                                                                                                                                                                                                                                                                                                                  |
| Indicative Contents<br>المحتويات الإرشادية                | <ol style="list-style-type: none"> <li>The student should be able to make two-dimensional architectural plans (10hu)</li> <li>The student should be able to convert binary architectural plans into three-dimensional figures and blocks (10hu)</li> <li>The student learns how to develop the scene by setting the lighting and the camera (27hu)</li> </ol>                                                                                                                                                                                                                                                                                                              |

Learning and Teaching Strategies  
استراتيجيات التعلم والتعليم

|            |                                                                                                                                                                                                                                                                                        |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategies | <ol style="list-style-type: none"> <li>Explaining the scientific material to students in detail.</li> <li>Practical application in the laboratory of everything that has been studied theoretically</li> <li>Discussion and dialogue about vocabulary related to the topic.</li> </ol> |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Student Workload (SWL)  
الحمل الدراسي للطلاب

|                                                                         |    |                                                                     |     |
|-------------------------------------------------------------------------|----|---------------------------------------------------------------------|-----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطلاب خلال الفصل       | 48 | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطلاب أسبوعياً       | 3.2 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطلاب خلال الفصل | 27 | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطلاب أسبوعياً | 1.8 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطلاب خلال الفصل              | 75 |                                                                     |     |

Module Evaluation  
تقييم المادة الدراسية

|                      |                 | Time/Number | Weight (Marks)   | Week Due | Relevant Learning Outcome |
|----------------------|-----------------|-------------|------------------|----------|---------------------------|
| Formative assessment | Quizzes         | 1           | 10% (10)         | 5, 10    | LO #1, 2, 10 and 11       |
|                      | Assignments     |             |                  |          |                           |
|                      | Projects / Lab. |             |                  |          |                           |
|                      | Report          | 1           | 10 (10)          | 13       | LO # 5, 8 and 10          |
| Summative assessment | Midterm Exam    | 2 hr        | 30% (30)         | 7        | LO # 1-7                  |
|                      | Final Exam      | 2hr         | 50% (50)         | 16       | All                       |
| Total assessment     |                 |             | 100% (100 Marks) |          |                           |

Delivery Plan (Weekly Lab. Syllabus)  
المنهاج الاسبوعي للمختبر

|         | Material Covered |
|---------|------------------|
| Week 1  |                  |
| Week 2  |                  |
| Week 3  |                  |
| Week 4  |                  |
| Week 5  |                  |
| Week 6  |                  |
| Week 7  |                  |
| Week 8  |                  |
| Week 9  |                  |
| Week 10 |                  |
| Week 11 |                  |
| Week 12 |                  |
| Week 13 |                  |
| Week 14 |                  |
| Week 15 |                  |

Delivery Plan (Weekly Syllabus)  
المنهاج الاسبوعي النظري

|  | Material Covered |
|--|------------------|
|--|------------------|

Learning and Teaching Resources  
مصادر التعلم والتدريس

|                   | Text                                                                                                                                                                                                                                                                                                                                                                                                                                    | Available in the Library? |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Required Texts    | <ol style="list-style-type: none"> <li>Graham Brown, David Watson, "Cambridge IGCSE Information and Communication Technology", 3rd Edition(2020)</li> <li>Al-Khadr Ali Al-Khadr (Researcher), "Computer Fundamentals", 2016.</li> <li>Computer Networks – Andrew S. Tanenbaum Introduction to Artificial Intelligence – Stuart Russell &amp; Peter Norvig</li> <li>Computer Hardware and Troubleshooting Basics – (Beginner-</li> </ol> | Yes                       |
| Recommended Texts |                                                                                                                                                                                                                                                                                                                                                                                                                                         | No                        |
| Websites          |                                                                                                                                                                                                                                                                                                                                                                                                                                         |                           |

Grading Scheme

مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A – Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                             | C – Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                             | E – Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 – 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |
|                             |                  |                     |           |                                       |

Module Information  
معلومات المادة الدراسية

|                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                               |                                                                                                                                                                                                                                       |                                              |
|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Module Title                                                                                                       | Architectural Design III                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                               | Module Delivery                                                                                                                                                                                                                       |                                              |
| Module Type                                                                                                        | C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                               | <input checked="" type="checkbox"/> Theory<br>Lecture<br><input checked="" type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial<br><input checked="" type="checkbox"/> Practical<br><input checked="" type="checkbox"/> Seminar |                                              |
| Module Code                                                                                                        | Arch2311                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                               |                                                                                                                                                                                                                                       |                                              |
| ECTS Credits                                                                                                       | 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                               |                                                                                                                                                                                                                                       |                                              |
| SWL (hr/sem)                                                                                                       | 225                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                               |                                                                                                                                                                                                                                       |                                              |
| Module Level                                                                                                       | UGII                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Semester of Delivery          |                                                                                                                                                                                                                                       | 3                                            |
| Administering Department                                                                                           | Architecture Engineering                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | College                       | University of Babylon                                                                                                                                                                                                                 |                                              |
| Module Leader                                                                                                      | Name: DR. HUSSAM JABBAR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                               | e-mail                                                                                                                                                                                                                                | E-mail<br>Eng.hussam.jabbar@uobabylon.end.iq |
| Module Leader's Acad. Title                                                                                        | Professor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Module Leader's Qualification |                                                                                                                                                                                                                                       | Ph.D.                                        |
| Module Tutor                                                                                                       | Name (if available)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                               | e-mail                                                                                                                                                                                                                                | E-mail<br>Eng.hussam.jabbar@uobabylon.end.iq |
| Peer Reviewer Name                                                                                                 | Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | e-mail                        | E-mail<br>Eng.hussam.jabbar@uobabylon.end.iq                                                                                                                                                                                          |                                              |
| Scientific Committee Approval Date                                                                                 | 01/06/2023                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Version Number                | 1.0                                                                                                                                                                                                                                   |                                              |
| Relation with other Modules<br>العلاقة مع المواد الدراسية الأخرى                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                               |                                                                                                                                                                                                                                       |                                              |
| Prerequisite module                                                                                                | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                               | Semester                                                                                                                                                                                                                              |                                              |
| Co-requisites module                                                                                               | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                               | Semester                                                                                                                                                                                                                              |                                              |
| Module Aims, Learning Outcomes and Indicative Contents<br>أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                               |                                                                                                                                                                                                                                       |                                              |
| Module Aims<br>أهداف المادة الدراسية                                                                               | The year in the architectural study represents an important transitional stage that moves the student from the stage of preparing designs of an abstract defining nature (which is represented in the first grade) to a more comprehensive stage in defining what architecture is (utility, durability and beauty), with an emphasis on the concept of local privacy and integration with the context and urban landscape.                                                                                                                                                                                                                                                                                                                                                                                                                                    |                               |                                                                                                                                                                                                                                       |                                              |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية                                                          | 6- Acquaint the student with art and architecture<br>7- To familiarize the student with the capabilities of scientific criticism<br>8- Know the basics of architectural design<br>9- Identify the elements of architectural design<br>10- Learn the principles of architectural design                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                               |                                                                                                                                                                                                                                       |                                              |
| Indicative Contents<br>المحتويات الإرشادية                                                                         | Developing the capabilities of the student's artistic (10hrs)<br>architectural creative thinking by developing his architectural information (10hrs)<br>developing his drawing capabilities (20hrs)<br>building his architectural memory by viewing architectural products with pictures and videos. (10hrs)<br>The student's memory is also developed by feeding it with the biographies of international architects and architecture masters (10hrs)<br>Learn advanced drawing programs such as AutoCAD (15hrs)<br>Learn how to show by professional hand drawing and in different styles, watercolors, acrylic markers, etc (15hrs)<br>Performing all that is required of drawing class assignments from drawing projects in all their stages and showing them at a high professional level through manual drawing or by means of computer program (30hrs) |                               |                                                                                                                                                                                                                                       |                                              |

### Student Workload (SWL)

الحمل الدراسي للطالب

|                                                                         |     |                                                                     |    |
|-------------------------------------------------------------------------|-----|---------------------------------------------------------------------|----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطالب خلال الفصل       | 180 | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطالب أسبوعياً       | 12 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطالب خلال الفصل | 120 | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطالب أسبوعياً | 8  |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطالب خلال الفصل              | 300 |                                                                     |    |

### Module Evaluation for Architectural Design III

تقييم المادة الدراسية للتصميم المعماري

|                      | Time/Number  | Weight (Marks) | Week Due | Relevant Learning Outcome |
|----------------------|--------------|----------------|----------|---------------------------|
| Formative assessment | Quizzes/     |                |          |                           |
|                      | Assignments  | 10             | 25% (25) | 2, 4,5,6,7, 9,10,11       |
|                      | Projects     | 2              | 15% (15) | Continuous                |
|                      | Report       |                |          |                           |
| Summative assessment | Midterm Exam | 2              | 10%      | 12,14                     |
|                      | Final Exam   |                |          | All                       |
| Total assessment     |              | 50% (50 Marks) |          |                           |

### Delivery Plan (Weekly Syllabus)

المنهاج الأسبوعي النظري

|                  |
|------------------|
| Material Covered |
|------------------|

### Delivery Plan (Weekly Lab. Syllabus)

المنهاج الأسبوعي للمختبر

|            |                                                                                                                                                                                                                                                                                                                                                                       |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | Material Covered<br>The first part of the curriculum takes nine hours per week during the first semester                                                                                                                                                                                                                                                              |
| Week 1-2   | A simple introductory project, the aim of which is to retrieve the information that the student was exposed to in the first stage and to create a mental warm-up to transfer the student from the abstract stage to a stage characterized by realism and functionalism. During this period, the summer homework required of the students is discussed and evaluated.  |
| Week 3 -14 | The project of designing a residence house aims to identify the design principles of specialized buildings. By preparing the initial and then final designs for the project, which takes about 6-8 weeks, while the second stage includes preparing the signature and compilation designs and some main components, which takes about 2-4 weeks. The student repeats. |

### Learning and Teaching Resources

مصادر التعلم والتدريس

|                   | Text                                                                                 | Available in the Library? |
|-------------------|--------------------------------------------------------------------------------------|---------------------------|
| Required Texts    | -Neufert Architecture s Data<br>-Architectural Design Data<br>-Landscape Architectre | Yes                       |
| Recommended Texts |                                                                                      | No                        |
| Websites          |                                                                                      |                           |

### Grading Scheme

مخطط الدرجات

| Group | Grade | التقدير | Marks (%) | Definition |
|-------|-------|---------|-----------|------------|
|-------|-------|---------|-----------|------------|

|                             |                  |                     |          |                                       |
|-----------------------------|------------------|---------------------|----------|---------------------------------------|
| Success Group<br>(50 - 100) | A - Excellent    | امتياز              | 90 - 100 | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 - 89  | Above average with some errors        |
|                             | C - Good         | جيد                 | 70 - 79  | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 - 69  | Fair but with major shortcomings      |
|                             | E - Sufficient   | مقبول               | 50 - 59  | Work meets minimum criteria           |
| Fail Group<br>(0 - 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)  | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)   | Considerable amount of work required  |
|                             |                  |                     |          |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

| Module Information<br>معلومات المادة الدراسية                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                            |                               |                                                                                                                                                                                                                                       |                                              |
|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Module Title                                                                                                       | Architectural Drawing III                                                                                                                                                                                                                                                                                                                                                                                                  |                               | Module Delivery                                                                                                                                                                                                                       |                                              |
| Module Type                                                                                                        | C                                                                                                                                                                                                                                                                                                                                                                                                                          |                               | <input checked="" type="checkbox"/> Theory<br>Lecture<br><input checked="" type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial<br><input checked="" type="checkbox"/> Practical<br><input checked="" type="checkbox"/> Seminar |                                              |
| Module Code                                                                                                        | Arch2312                                                                                                                                                                                                                                                                                                                                                                                                                   |                               |                                                                                                                                                                                                                                       |                                              |
| ECTS Credits                                                                                                       | 3                                                                                                                                                                                                                                                                                                                                                                                                                          |                               |                                                                                                                                                                                                                                       |                                              |
| SWL (hr/sem)                                                                                                       | 75                                                                                                                                                                                                                                                                                                                                                                                                                         |                               |                                                                                                                                                                                                                                       |                                              |
| Module Level                                                                                                       | UGII                                                                                                                                                                                                                                                                                                                                                                                                                       | Semester of Delivery          |                                                                                                                                                                                                                                       |                                              |
| Administering Department                                                                                           | Architecture Engineering                                                                                                                                                                                                                                                                                                                                                                                                   | College                       | University of Babylon                                                                                                                                                                                                                 |                                              |
| Module Leader                                                                                                      | Name: DR. HUSSAM JABBAR                                                                                                                                                                                                                                                                                                                                                                                                    |                               | e-mail                                                                                                                                                                                                                                | E-mail<br>Eng.hussam.jabbar@uobabylon.end.iq |
| Module Leader's Acad. Title                                                                                        | Professor                                                                                                                                                                                                                                                                                                                                                                                                                  | Module Leader's Qualification |                                                                                                                                                                                                                                       | Ph.D.                                        |
| Module Tutor                                                                                                       | Name (if available)                                                                                                                                                                                                                                                                                                                                                                                                        |                               | e-mail                                                                                                                                                                                                                                | E-mail<br>Eng.hussam.jabbar@uobabylon.end.iq |
| Peer Reviewer Name                                                                                                 | Name                                                                                                                                                                                                                                                                                                                                                                                                                       |                               | e-mail                                                                                                                                                                                                                                | E-mail<br>Eng.hussam.jabbar@uobabylon.end.iq |
| Scientific Committee Approval Date                                                                                 | 01/06/2023                                                                                                                                                                                                                                                                                                                                                                                                                 | Version Number                |                                                                                                                                                                                                                                       | 1.0                                          |
| Relation with other Modules<br>العلاقة مع المواد الدراسية الأخرى                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                            |                               |                                                                                                                                                                                                                                       |                                              |
| Prerequisite module                                                                                                | None                                                                                                                                                                                                                                                                                                                                                                                                                       |                               | Semester                                                                                                                                                                                                                              |                                              |
| Co-requisites module                                                                                               | None                                                                                                                                                                                                                                                                                                                                                                                                                       |                               | Semester                                                                                                                                                                                                                              |                                              |
| Module Aims, Learning Outcomes and Indicative Contents<br>أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية |                                                                                                                                                                                                                                                                                                                                                                                                                            |                               |                                                                                                                                                                                                                                       |                                              |
| Module Aims<br>أهداف المادة الدراسية                                                                               | The year in the architectural study represents an important transitional stage that moves the student from the stage of preparing designs of an abstract defining nature (which is represented in the first grade) to a more comprehensive stage in defining what architecture is (utility, durability and beauty), with an emphasis on the concept of local privacy and integration with the context and urban landscape. |                               |                                                                                                                                                                                                                                       |                                              |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية                                                          | 1- Acquaint the student with art and architecture<br>2- To familiarize the student with the capabilities of scientific criticism<br>3- Know the basics of architectural design<br>4- Identify the elements of architectural design                                                                                                                                                                                         |                               |                                                                                                                                                                                                                                       |                                              |

|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                            | 5- Learn the principles of architectural design                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Indicative Contents<br>المحتويات الإرشادية | <p>Developing the capabilities of the student's artistic (10hrs)<br/>architectural creative thinking by developing his architectural information (10hrs)<br/>developing his drawing capabilities (20hrs)<br/>building his architectural memory by viewing architectural products with pictures and videos. (10hrs)<br/>The student's memory is also developed by feeding it with the biographies of international architects and architecture masters (10hrs)<br/>Learn advanced drawing programs such as AutoCAD (15hrs)<br/>Learn how to show by professional hand drawing and in different styles, watercolors, acrylic markers, etc (15hrs)<br/>Performing all that is required of drawing class assignments from drawing projects in all their stages and showing them at a high professional level through manual drawing or by means of computer program (30hrs)</p> |

| Student Workload (SWL)<br>الحمل الدراسي للطالب                          |     |                                                                     |    |
|-------------------------------------------------------------------------|-----|---------------------------------------------------------------------|----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطالب خلال الفصل       | 180 | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطالب أسبوعياً       | 12 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطالب خلال الفصل | 120 | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطالب أسبوعياً | 8  |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطالب خلال الفصل              | 300 |                                                                     |    |

| Module Evaluation for <b>Architectural Drawing III</b><br>تقييم المادة الدراسية للرسم المعماري |              |             |                |                 |                           |
|------------------------------------------------------------------------------------------------|--------------|-------------|----------------|-----------------|---------------------------|
|                                                                                                |              | Time/Number | Weight (Marks) | Week Due        | Relevant Learning Outcome |
| Formative assessment                                                                           | Quizzes/     |             |                |                 |                           |
|                                                                                                | Assignments  | 5           | 25% (25)       | 2, 5, 7, 10, 11 |                           |
|                                                                                                | Projects     | 4           | 20% (15)       | Continuous      |                           |
|                                                                                                | Report       |             |                |                 |                           |
| Summative assessment                                                                           | Midterm Exam | 2           | 10% (10)       | 8, 14           |                           |
|                                                                                                | Final Exam   |             |                |                 | All                       |
| Total assessment                                                                               |              |             | 50% (50 Marks) |                 |                           |

| Delivery Plan (Weekly Syllabus)<br>المنهاج الأسبوعي النظري |                  |
|------------------------------------------------------------|------------------|
|                                                            | Material Covered |

| Delivery Plan (Weekly Lab. Syllabus)<br>المنهاج الأسبوعي للمختبر |                                                                                                       |
|------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
|                                                                  | Material Covered                                                                                      |
|                                                                  | The first part of the curriculum takes nine hours per week during the first semester                  |
|                                                                  | An introductory lecture/exhibition of students' drawings explaining the different techniques          |
|                                                                  | 2D Drawings - Drawing horizontal plans of different buildings (PLANS) and site plans.                 |
|                                                                  | Drawing vertical sections (SECTIONS) with an emphasis on the method of displaying in ink and colors.  |
|                                                                  | Drawing and displaying interfaces (ELEVATIONS).                                                       |
|                                                                  | Regular semester exam                                                                                 |
|                                                                  | Three-dimensional drawings - isometric / types and uses / drawing cuboids and vaults                  |
|                                                                  | Isometric drawing of a cylinder and a wall with openings of different shapes / a composition exercise |

|  |                                                                                                                                        |
|--|----------------------------------------------------------------------------------------------------------------------------------------|
|  | that includes different shapes, with drawing levels                                                                                    |
|  | Drawing the dome and other shapes, drawing a more complex composition.                                                                 |
|  | Complex isometric test.                                                                                                                |
|  | Internal isometric-, method of drawing, examples, exercise, assignment The student draws an internal isometric for his design project. |
|  | External Isometric + Homework The student draws an external isometric for his design project.                                          |
|  | Perspective - Lecture on the concept and its properties. Perspective with two vanishing points. The cube in different positions.       |
|  | The cube in perspective - a complement to the other cases - drawing other simple shapes.                                               |
|  | Perspective - the multiple vanishing points, the geometric composition in perspective.                                                 |
|  | Exam - Geometric composition in perspective.                                                                                           |

#### Learning and Teaching Resources

مصادر التعلم والتدريس

|                   | Text                                                                    | Available in the Library? |
|-------------------|-------------------------------------------------------------------------|---------------------------|
| Required Texts    | -Site construction Details<br>-Pencil Sketching<br>-Perspective Drawing | Yes                       |
| Recommended Texts |                                                                         | No                        |
| Websites          |                                                                         |                           |

#### Grading Scheme

مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A - Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                             | C - Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                             | E - Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 - 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |
|                             |                  |                     |           |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

#### Module Information

معلومات المادة الدراسية

| Module Title             | Freehand Drawing II      | Module Delivery                                                                                                                                                                                                                       |                       |  |
|--------------------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--|
| Module Type              | C                        | <input checked="" type="checkbox"/> Theory<br>Lecture<br><input checked="" type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial<br><input checked="" type="checkbox"/> Practical<br><input checked="" type="checkbox"/> Seminar |                       |  |
| Module Code              | Arch2313                 |                                                                                                                                                                                                                                       |                       |  |
| ECTS Credits             | 5                        |                                                                                                                                                                                                                                       |                       |  |
| SWL (hr/sem)             | 125                      |                                                                                                                                                                                                                                       |                       |  |
| Module Level             | UGII                     | Semester of Delivery                                                                                                                                                                                                                  | 3                     |  |
| Administering Department | Architecture Engineering | College                                                                                                                                                                                                                               | University of Babylon |  |

|                                    |                     |                               |        |
|------------------------------------|---------------------|-------------------------------|--------|
| Module Leader                      | Name                | e-mail                        | E-mail |
| Module Leader's Acad. Title        | Professor           | Module Leader's Qualification | Ph.D.  |
| Module Tutor                       | Name (if available) | e-mail                        | E-mail |
| Peer Reviewer Name                 | Name                | e-mail                        | E-mail |
| Scientific Committee Approval Date | 01/06/2023          | Version Number                | 1.0    |

| Relation with other Modules<br>العلاقة مع المواد الدراسية الأخرى |      |          |  |
|------------------------------------------------------------------|------|----------|--|
| Prerequisite module                                              | None | Semester |  |
| Co-requisites module                                             | None | Semester |  |

| Module Aims, Learning Outcomes and Indicative Contents<br>أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                                                                               | <p>Developing student skills in the use of watercolors, posters, pastels and oil colors, using advanced techniques.</p> <p>Developing the student's ability to control the implementation of complex shapes and advanced color techniques.</p> <p>Practical practice of how to show projects through color perspectives and benefit from them in design materials.</p> <p>Strengthening the student's skills in converting what is going on in his mind into an image that can be perceived through free drawing. Introducing the student to the most important Iraqi and Arab artistic movements and artists. This comes through theoretical lectures accompanied by a visual display of their work, as well as the visits that students make to places where artworks are displayed inside Iraq. Introducing the student to ceramic materials and sculpture and his sense of mass through some exercises in clay and gypsum that help him In increasing his skills in showing his designed projects, especially the stereoscopic ones, and giving them a more beautiful and close to reality image.</p> <p>Implementation of graphic drawings, watercolors, and others for selected regions in the region in which the student resides. Work was done with the design works at the beginning of the third academic year.</p> <p>Optional fee: Additional hours practiced by the student of his choice and from all academic levels, where the following is confirmed: The student chooses a subject in which he participates in the exhibitions held in the department and with the various techniques. Provides additional assignments for the various subjects that the student has completed. - Providing the student with experiences in addition to his general academic curriculum.</p> |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية                                                          | <ol style="list-style-type: none"> <li>1- Acquaint the student with art and architecture</li> <li>2- To familiarize the student with the capabilities of scientific criticism</li> <li>3- Know the basics of architectural design</li> <li>4- Identify the elements of architectural design</li> <li>5- Learn the principles of architectural design</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Indicative Contents<br>المحتويات الإرشادية                                                                         | <p>Study theories of art extensively and broadly (8hrs)</p> <p>Learn about artistic practices of all kinds (8hrs)</p> <p>Studying different drawing methods by getting acquainted with watercolors, acrylics and markers (8hrs)</p> <p>Engaging in development courses for artistic faculties in drawing Methods (8hrs)</p> <p>Taking remedial courses in technical planning methods and studying scale drawing (8hrs)</p> <p>Accurately perform the duties assigned to the student and try to repeat them (8hrs)</p> <p>Trying to draw silent life constantly (8hrs)</p> <p>Drawing the largest number of paintings of buildings and architectural structures and</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

|  |                                                                                                                                              |
|--|----------------------------------------------------------------------------------------------------------------------------------------------|
|  | discovering the resulting errors (7hrs)<br>Studying technical drawing methods through the computer through different drawing programs (7hrs) |
|--|----------------------------------------------------------------------------------------------------------------------------------------------|

### Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategies | The strategies of the curriculum are divided into first: distant goals such as building a generation of architects capable of innovation that has high architectural taste and intermediate goals through building contemporary architectural thought that is able to combine contemporary, preservation and close goals through developing the student's architectural talents and providing them with intellectual and technical tools. |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Student Workload (SWL)

الحمل الدراسي للطلاب

|                                                                         |     |                                                                     |     |
|-------------------------------------------------------------------------|-----|---------------------------------------------------------------------|-----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطلاب خلال الفصل       | 105 | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطلاب أسبوعياً       | 7   |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطلاب خلال الفصل | 70  | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطلاب أسبوعياً | 4.6 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطلاب خلال الفصل              | 175 |                                                                     |     |

### Module Evaluation

تقييم المادة الدراسية

| As                   | Time/Number     | Weight (Marks)   | Week Due | Relevant Learning Outcome |
|----------------------|-----------------|------------------|----------|---------------------------|
| Formative assessment | Quizzes         |                  |          |                           |
|                      | Assignments     | 2                | 30% (30) | 2, 12                     |
|                      | Projects / Lab. | 3                | 40% (40) | Continuous                |
|                      |                 |                  |          |                           |
| Summative assessment | Midterm Exam    | 2 hr             | 30% (30) | 7                         |
|                      |                 |                  |          | LO # 1-7                  |
| Total assessment     |                 | 100% (100 Marks) |          | All                       |

### Delivery Plan (Weekly Syllabus)

المناهج الأسبوعي النظري

### Delivery Plan (Weekly Lab. Syllabus)

المناهج الأسبوعي للمختبر

| Week    | Material Covered                                                                     |
|---------|--------------------------------------------------------------------------------------|
|         | The first part of the curriculum takes Four hours per week during the first semester |
| Week 1  | Figures Studying: Drawing figures                                                    |
| Week 2  | Drawing by using the colors                                                          |
| Week 3  | Drawing Perspective for a building                                                   |
| Week 4  | Drawing different types of floors                                                    |
| Week 5  | Examination                                                                          |
| Week 6  | Definition of the principles of modern painting                                      |
| Week 7  | Eliciting the colors :two – coloured ; three coloured                                |
| Week 8  | Eliciting the tones                                                                  |
| Week 9  | Drawing modern boards                                                                |
| Week 10 | In details, studying the landscape                                                   |
| Week 11 | Describing the principles of the perspective in building                             |
| Week 12 | Drawing perspective for certain building                                             |
| Week 13 | Examination                                                                          |

|         |                                                                                                           |
|---------|-----------------------------------------------------------------------------------------------------------|
| Week 14 | Figures Studying: Drawing figures                                                                         |
| Week 15 | Drawing by using the colors                                                                               |
| Week    | Material Covered<br>The Second part of the curriculum takes Four hours per week during the first semester |
| Week 1  | Drawing perspective for building reflecting the architectural details and surrounding environment.        |
| Week 2  | Drawing the civil engineering and the surrounding building                                                |
| Week 3  | Drawing the engineering college building focusing on the gardens around it                                |
| Week 4  | Drawing the electrical engineering department using the wooden colours                                    |
| Week 5  | Exercise on drawing the types of techniques used in reflection                                            |
| Week 6  | Drawing buildings with their environments using the watercolors                                           |
| Week 7  | Drawing same building appearances and evaluate the stage                                                  |
| Week 8  | The stage of sculpturing by using clay ,formation clay shapes                                             |
| Week 9  | Making some shapes by using the clay                                                                      |
| Week 10 | Drawing inner perspective for certain building                                                            |
| Week 11 | Drawing inner perspective for the building of civil building                                              |
| Week 12 | Drawing perspective for high building by using the wooden colours                                         |
| Week 13 | Drawing perspective for building reflecting the architectural details and surrounding environment.        |

#### Learning and Teaching Resources

مصادر التعلم والتدريس

|                   | Text                                          | Available in the Library? |
|-------------------|-----------------------------------------------|---------------------------|
| Required Texts    | Book of free manual drawing<br>Figure Drawing | Yes                       |
| Recommended Texts |                                               | No                        |
| Websites          |                                               |                           |

#### Grading Scheme

مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A - Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                             | C - Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                             | E - Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 - 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |
|                             |                  |                     |           |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

المستوى الثاني – الفصل الثاني  
MODULE DESCRIPTION FORM  
نموذج وصف المادة الدراسية

Module Information  
معلومات المادة الدراسية

|                                    |                           |                                                                                                                                                                                                                 |                                        |
|------------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| Module Title                       | English language II       | Module Delivery                                                                                                                                                                                                 |                                        |
| Module Type                        | B                         | <input checked="" type="checkbox"/> Theory<br>Lecture<br><input type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial<br><input type="checkbox"/> Practical<br><input checked="" type="checkbox"/> Seminar |                                        |
| Module Code                        | UOBAB2302                 |                                                                                                                                                                                                                 |                                        |
| ECTS Credits                       | 2                         |                                                                                                                                                                                                                 |                                        |
| SWL (hr/sem)                       | 50                        |                                                                                                                                                                                                                 |                                        |
| Module Level                       | UGx11 1                   | Semester of Delivery                                                                                                                                                                                            | 4                                      |
| Administering Department           | Architecture Engineering  | College                                                                                                                                                                                                         | University of Babylon                  |
| Module Leader                      | Professor: Muayad Mingher | e-mail                                                                                                                                                                                                          | eng. muayad mingher@uobabylon. edu. Iq |
| Module Leader's Acad. Title        | Professor                 | Module Leader's Qualification                                                                                                                                                                                   | M.A.                                   |
| Module Tutor                       | Name (if available)       | e-mail                                                                                                                                                                                                          | eng. muayad mingher@uobabylon. edu. Iq |
| Peer Reviewer Name                 | Name                      | e-mail                                                                                                                                                                                                          | eng. muayad mingher@uobabylon. edu. Iq |
| Scientific Committee Approval Date | 01/06/2023                | Version Number                                                                                                                                                                                                  | 1.0                                    |

Relation with other Modules  
العلاقة مع المواد الدراسية الأخرى

|                      |      |          |  |
|----------------------|------|----------|--|
| Prerequisite module  | None | Semester |  |
| Co-requisites module | None | Semester |  |

Module Aims, Learning Outcomes and Indicative Contents  
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                      | At this stage, the student completes what he was exposed to in the first stage, with an emphasis on the need to encourage the student to dialogue, use language, and build terminology. In the second stage, a broader focus is placed on writing and reading texts, especially architectural ones, by electing some simplified architectural articles to be read, and then asking the student to write a summary, a special opinion, or a discussion of the subject. Parts of two books are approved, and English grammar is learned. |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية | 1. Raise the students' recognition of correct utilization of English grammar in productive skills.<br>2. Make better their speaking capacity in English both in terms of fluency and understandability.<br>3. Provide oral presentations and receive feedback on their performance.<br>4. Growing their reading speed and comprehension. Students' reading fluency skills will be improved through extensive reading.                                                                                                                  |
| Indicative Contents<br>المحتويات الإرشادية                | 1. Building up the students' skills in reflective practice and creative thinking.<br>2. Enhancing the students' capacities in creating sentences.<br>3. Having knowledge of some important features of British norms when making efficient the students' skillfulness in using the language .<br>4. Using the correct pronunciation and grammatical constructions.<br>5. Expanding their vocabulary to communicate their ideas.<br>6. Activity participation is demanded from students.                                                |

Learning and Teaching Strategies  
استراتيجيات التعلم والتعليم

|            |  |
|------------|--|
| Strategies |  |
|------------|--|

|  |                                                                                                                                                                                                                                                                                                                                                                                              |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering type of simple experiments involving some sampling activities that are interesting to the students. |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Student Workload (SWL)<br>الحمل الدراسي للطلاب                          |     |                                                                    |     |
|-------------------------------------------------------------------------|-----|--------------------------------------------------------------------|-----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطلاب خلال الفصل       | 33  | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطلاب أسبوعيا       | 2.2 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطلاب خلال الفصل | 17  | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطلاب أسبوعيا | 1.2 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطلاب خلال الفصل              | 200 |                                                                    |     |

| Module Evaluation<br>تقييم المادة الدراسية |                 |                  |                |          |                           |
|--------------------------------------------|-----------------|------------------|----------------|----------|---------------------------|
|                                            |                 | Time/Number      | Weight (Marks) | Week Due | Relevant Learning Outcome |
| Formative assessment                       | Quizzes         | 1                | 5% (5)         | 5, 10    | LO #1, 2, 10 and 11       |
|                                            | Assignments     | 1                | 5% (5)         | 2, 12    | LO # 3, 4, 6 and 7        |
|                                            | Projects / Lab. | /                | /              | /        | /                         |
|                                            | Report          | /                | /              | /        | /                         |
| Summative assessment                       | Midterm Exam    | 2 hr             | 40% (40)       | 7        | LO # 1-7                  |
|                                            | Final Exam      | 3hr              | 50% (50)       | 16       | All                       |
| Total assessment                           |                 | 100% (100 Marks) |                |          |                           |

| Delivery Plan (Weekly Syllabus)<br>المنهاج الأسبوعي النظري |                                                                                             |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------|
|                                                            | Material Covered                                                                            |
| Week 1                                                     | Unit One: Getting to know you/ Grammar;. Vocabulary; Skills Work and Everyday English       |
| Week 2                                                     | Unit Two: The way we live/ Grammar;. Vocabulary; Skills Work and Everyday English           |
| Week 3                                                     | Unit Three: It all went wrong/ Grammar;. Vocabulary; Skills Work and Everyday English       |
| Week 4                                                     | Unit Four: Let's go shopping!/ Grammar;. Vocabulary; Skills Work and Everyday English       |
| Week 5                                                     | Unit Five: What do you want to do?/Grammar;. Vocabulary; Skills Work and Everyday English   |
| Week 6                                                     | Unit Six: Tell me! What's it like? / Grammar;. Vocabulary; Skills Work and Everyday English |
| Week 7                                                     | Unit Seven: Famous couples/ Grammar;. Vocabulary; Skills Work and Everyday English          |
| Week 8                                                     | Midterm Exam.                                                                               |
| Week 9                                                     | Unit Eight: Going places/ Grammar;. Vocabulary; Skills Work and Everyday English            |
| Week 10                                                    | Unit Nine: Scared to death/ Grammar;. Vocabulary; Skills Work and Everyday English          |
| Week 11                                                    | Unit Ten: Things changed the world/Grammar;. Vocabulary; Skills Work and Everyday English   |
| Week 12                                                    | Unit Eleven: Dreams and reality/ Grammar;. Vocabulary; Skills Work and Everyday English     |
| Week 13                                                    | Unit Twelve: Earning a living/ Grammar;. Vocabulary; Skills Work and Everyday English       |
| Week 14                                                    | Unit Thirteen : Love you and leave you/ Grammar; Vocabulary; Skills Work and Every English  |
| Week 15                                                    | Examination                                                                                 |

| Delivery Plan (Weekly Lab. Syllabus)<br>المنهاج الأسبوعي للمختبر |
|------------------------------------------------------------------|
|------------------------------------------------------------------|

| Learning and Teaching Resources<br>مصادر التعلم والتدريس |      |                           |
|----------------------------------------------------------|------|---------------------------|
|                                                          | Text | Available in the Library? |

|                   |                                                                                            |    |
|-------------------|--------------------------------------------------------------------------------------------|----|
| Required Texts    | New Headway Pre-intermediate Student's Book                                                | No |
| Recommended Texts | English Grammar in Use.                                                                    | No |
| Websites          | <a href="https://www.academia.edu">https://www.academia.edu</a> › New_headway_intermedi... |    |

| Grading Scheme<br>مخطط الدرجات |                  |                     |           |                                       |
|--------------------------------|------------------|---------------------|-----------|---------------------------------------|
| Group                          | Grade            | التقدير             | Marks (%) | Definition                            |
| Success Group<br>(50 - 100)    | A – Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                                | B - Very Good    | جيد جدا             | 80 – 89   | Above average with some errors        |
|                                | C – Good         | جيد                 | 70 – 79   | Sound work with notable errors        |
|                                | D – Satisfactory | متوسط               | 60 – 69   | Fair but with major shortcomings      |
|                                | E – Sufficient   | مقبول               | 50 – 59   | Work meets minimum criteria           |
| Fail Group<br>(0 – 49)         | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                                | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |
|                                |                  |                     |           |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

| Module Information<br>معلومات المادة الدراسية |                              |                          |                                                                                                                                                                                                                                            |                                              |       |
|-----------------------------------------------|------------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-------|
| Module Title                                  | Logic and design Methodology |                          | Module Delivery                                                                                                                                                                                                                            |                                              |       |
| Module Type                                   | S                            |                          | <div><input checked="" type="checkbox"/> Theory<br/>Lecture<br/><input type="checkbox"/> Lab<br/><input type="checkbox"/> Tutorial<br/><input checked="" type="checkbox"/> Practical<br/><input checked="" type="checkbox"/> Seminar</div> |                                              |       |
| Module Code                                   | Arch2406                     |                          |                                                                                                                                                                                                                                            |                                              |       |
| ECTS Credits                                  | 2                            |                          |                                                                                                                                                                                                                                            |                                              |       |
| SWL (hr/sem)                                  | 50                           |                          |                                                                                                                                                                                                                                            |                                              |       |
| Module Level                                  |                              | UGII                     | Semester of Delivery                                                                                                                                                                                                                       |                                              | 4     |
| Administering Department                      |                              | Architecture Engineering | College                                                                                                                                                                                                                                    | University of Babylon                        |       |
| Module Leader                                 | Name:Dr.hussam jabbar        |                          | e-mail                                                                                                                                                                                                                                     | E-mail<br>eng.hussam.jabbar@uobabylon.edu.iq |       |
| Module Leader’s Acad. Title                   |                              | Professor                | Module Leader’s Qualification                                                                                                                                                                                                              |                                              | Ph.D. |
| Module Tutor                                  | Name (if available)          |                          | e-mail                                                                                                                                                                                                                                     | E-mail                                       |       |
| Peer Reviewer Name                            |                              | Name                     | e-mail                                                                                                                                                                                                                                     | E-mail                                       |       |
| Scientific Committee Approval Date            |                              | 01/06/2023               | Version Number                                                                                                                                                                                                                             | 1.0                                          |       |

| Relation with other Modules<br>العلاقة مع المواد الدراسية الأخرى |      |          |  |
|------------------------------------------------------------------|------|----------|--|
| Prerequisite module                                              | None | Semester |  |
| Co-requisites module                                             | None | Semester |  |

| Module Aims, Learning Outcomes and Indicative Contents<br>أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                      |     |
|--------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----|
| Module Aims<br>أهداف المادة الدراسية                                                                               | The course: Make the student aware of the various disciplines and topics that play an important role in the design process, while clarifying the basic design principles, processes and factors involved in the design act, as well as teaching the student to apply logic for the purpose of enabling him to think clearly and reach sound conclusions and inferences to avoid improper and wrong thinking in his work. my design.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |     |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية                                                          | The production of an engineer familiar with the world of surveying since the beginning of the architectural design<br>The production of an architect who has the ability to implement his projects<br>An architecture student should be familiar with surveying devices of all kinds and models<br>Developing expertise and engineering professionalism for the student of architecture                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                      |     |
| Indicative Contents<br>المحتويات الإرشادية                                                                         | :Traditional design method : Craft Evolution , Design by Drawing , an example of the second era , How drawings produce design , System Designing , Socio-technical Innovation , The strength of a design process by drawing compared with the craft process (3h)<br>design process , The first map used by architects in the RIBA architectural Practice and Management Handbook (1965). , Markus/ Maver map of the design process<br>Arch. Design Process: 1- Briefing , 2-Analysis , 3-Synthesis , 4-Evaluation , 5-Design . (3h)<br>-1Briefing : Site selection, Program formulation, Data collection, Problem Definitions, examples study (3h)<br>The Architectural Design Problem has three Main Variables (Context -Need - Form( A continuation of the previous lecture : 1-2 Contexts , 1-3 Form , 2-Analysis , 3- Synthesis , 4-Evaluation , 5-Design<br>Design methodology : 1- What is design? , Design method First design methodology: designer brain as black box ology outline, the sequence of three steps : Quick analysis , Creating concept , Developing. (3h)<br>A continuation of the previous lecture , Black box method main features , Disadvantages (3h)<br>Second design methodology: designer brain as glass box , Main methodology characters Advantages , Disadvantages.<br>Compromising methodology , The purpose of compromising methodology , Methodology characters . Main steps of design conclude : analysis , composing, evaluate, develop (2h) |                      |     |
| Learning and Teaching Strategies<br>استراتيجيات التعلم والتعليم                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                      |     |
| Strategies                                                                                                         | 1. Graduating highly qualified architects.<br>2. Building the leadership qualities of its graduates by teaching them how to lead, solve construction problems, and the ability to choose appropriate construction details and materials.<br>3. Instilling a spirit of imagination in graduates and a commitment to acquiring knowledge and serving the community.<br>4. Contribute to project ideas, conduct research for the benefit and development of society, and involve students to work on projects that are under implementation.<br>5. Taking care of the outstanding students and encouraging them to use their skills.<br>6-Focusing on correct scientific, academic, professional and high ethical standards within the university campus. and encourage sharing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      |     |
| Student Workload (SWL)<br>الحمل الدراسي للطالب                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                      |     |
| Structured SWL (h/sem)                                                                                             | 33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Structured SWL (h/w) | 2.2 |

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|                                                                         |    |                                                                    |     |
|-------------------------------------------------------------------------|----|--------------------------------------------------------------------|-----|
| الحمل الدراسي المنتظم للطالب خلال الفصل                                 |    | الحمل الدراسي المنتظم للطالب أسبوعيا                               |     |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطالب خلال الفصل | 17 | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطالب أسبوعيا | 1.2 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطالب خلال الفصل              | 50 |                                                                    |     |

### Module Evaluation تقييم المادة الدراسية

|                      |                 | Time/Number | Weight (Marks)   | Week Due | Relevant Learning Outcome |
|----------------------|-----------------|-------------|------------------|----------|---------------------------|
| Formative assessment | Quizzes         | .5          | 10% (10)         | 5, 10    | LO #1, 2, 10 and 11       |
|                      | Assignments     |             |                  |          |                           |
|                      | Projects / Lab. |             |                  |          |                           |
|                      | Report          | 1           | 10% (10)         | 13       | LO # 5, 8 and 10          |
| Summative assessment | Midterm Exam    | 2 hr        | 30% (30)         | 7        | LO # 1-7                  |
|                      | Final Exam      | 2hr         | 50% (50)         | 16       | All                       |
| Total assessment     |                 |             | 100% (100 Marks) |          |                           |

### Delivery Plan (Weekly Syllabus) المنهاج الأسبوعي النظري

|              | Material Covered                                                                                                                                                                                                                                                                         |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Week 1       | The aim The aim of logic and design methodology , the processes and factors that are involved in a design act , terms interpretation : what is architecture , Design , Design methodology , method , logic .                                                                             |
| Week 2 -3    | Design and architectural design : Design Definition , Meaning and purpose of design , Hierarchy of human needs , The Concerns of design , Design problem dimensions: Need , Context , Form , Architectural design , Design constrains , Principles of “Good” Design                      |
| Week 4       | : Traditional design method : Craft Evolution , Design by Drawing , an example of the second era , How drawings produce design , System Designing , Socio-technical Innovation , The strength of a design process by drawing compared with the craft process                             |
| Week 5 -6    | design process , The first map used by architects in the RIBA architectural Practice and Management Handbook (1965). , Markus/ Maver map of the design process                                                                                                                           |
| Week 7       | Arch. Design Process: 1- Briefing , 2-Analysis , 3-Synthesis , 4-Evaluation , 5-Design .<br>1- Briefing : Site selection, Program formulation, Data collection, Problem Definitions, examples study<br>The Architectural Design Problem has three Main Variables (Context -Need - Form ) |
| Week 8       | A continuation of the previous lecture : 1-2 Contexts , 1-3 Form , 2-Analysis , 3-Synthesis , 4-Evaluation , 5-Design                                                                                                                                                                    |
| Week 9       | Design methodology : 1- What is design? , Design method First design methodology: designer brain as black box ology outline, the sequence of three steps : Quick analysis , Creating concept , Developing .                                                                              |
| Week 10      | A continuation of the previous lecture , Black box method main features , Disadvantages                                                                                                                                                                                                  |
| Week 11      | Second design methodology: designer brain as glass box , Main methodology characters Advantages , Disadvantages .                                                                                                                                                                        |
| Week 12 - 13 | Compromising methodology , The purpose of compromising methodology , Methodology characters . Main steps of design conclude : analysis , composing, evaluate, develop                                                                                                                    |
| Week 14      | Analysis Phase , Issues to be analyzed include : User requirements - site analysis - designer - spaces requirements . : Site analysis objectives , Site elements include two essential sets .                                                                                            |
| Week 15      | Issues to be analyzed include : User - site - designer - spaces requirements .<br>User analysis : Determine user goals , User consideration and expressions factors                                                                                                                      |

### Delivery Plan (Weekly Lab. Syllabus) المنهاج الأسبوعي المختبر

|  | Material Covered |
|--|------------------|
|--|------------------|

Learning and Teaching Resources  
مصادر التعلم والتدريس

|                   | Text | Available in the Library? |
|-------------------|------|---------------------------|
| Required Texts    |      | Yes                       |
| Recommended Texts |      | No                        |
| Websites          |      |                           |

Grading Scheme  
مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A - Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                             | C - Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                             | E - Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 - 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |
|                             |                  |                     |           |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

|                   |  |     |
|-------------------|--|-----|
| Required Texts    |  | Yes |
| Recommended Texts |  | No  |
| Websites          |  |     |

Grading Scheme  
مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A - Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                             | C - Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                             | E - Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 - 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |
|                             |                  |                     |           |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

Module Information  
معلومات المادة الدراسية

|              |                                |                 |
|--------------|--------------------------------|-----------------|
| Module Title | <u>Building Construction V</u> | Module Delivery |
|--------------|--------------------------------|-----------------|

|                                    |                     |                 |                               |                                                                                                                                                                                                                            |       |
|------------------------------------|---------------------|-----------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Module Type                        | Core                |                 |                               | <input checked="" type="checkbox"/> Theory<br>Lecture<br><input checked="" type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial<br><input checked="" type="checkbox"/> Practical<br><input type="checkbox"/> Seminar |       |
| Module Code                        | Arch2414            |                 |                               |                                                                                                                                                                                                                            |       |
| ECTS Credits                       | 4                   |                 |                               |                                                                                                                                                                                                                            |       |
| SWL (hr/sem)                       | 100                 |                 |                               |                                                                                                                                                                                                                            |       |
| Module Level                       |                     | UGxIII          | Semester of Delivery          |                                                                                                                                                                                                                            | 4     |
| Administering Department           |                     | Type Dept. Code | College                       | Type College Code                                                                                                                                                                                                          |       |
| Module Leader                      | Name:rewa menaf     |                 | e-mail                        | E-mail;<br>eng.rawaaabd.alshalah@uobabylon.edu.iq                                                                                                                                                                          |       |
| Module Leader's Acad. Title        |                     | Professor       | Module Leader's Qualification |                                                                                                                                                                                                                            | Ph.D. |
| Module Tutor                       | Name (if available) |                 | e-mail                        | E-mail                                                                                                                                                                                                                     |       |
| Peer Reviewer Name                 |                     | Name            | e-mail                        | E-mail                                                                                                                                                                                                                     |       |
| Scientific Committee Approval Date |                     | 01/06/2023      | Version Number                | 1.0                                                                                                                                                                                                                        |       |

Relation with other Modules  
العلاقة مع المواد الدراسية الأخرى

|                      |      |          |   |
|----------------------|------|----------|---|
| Prerequisite module  | None | Semester | 5 |
| Co-requisites module | None | Semester | 6 |

Module Aims, Learning Outcomes and Indicative Contents  
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                      | <p>This topic aims to introduce the student to the importance of the structural structure of the building and its close relationship to the design process, as choosing the appropriate structural structure for each building interacts directly with its function and the external final form of it. The lesson also deals with the importance of architectural details and the role they play when designing the building and their importance in the implementation process for the purpose of ensuring the correct implementation. The designer also increases the accuracy of highlighting the basic features of the building. The types of plans produced by the architect, such as design, execution and laboratory plans, are also discussed And the plans of the reality of the situation and what each of them needs in order to be appropriate for the purpose for which they were found. The scientific side of the subject includes teaching the student the method of producing and organizing detailed executive plans in general and how to produce them, and focusing on multi-storey structural buildings made of reinforced concrete and medium-bridge structures made of steel. In addition to introducing the student to the scheme arrangement and coding system, which is the (CL / SFB) system, as it is one of the global systems in engineering consulting offices and agencies. The subject includes theoretical lectures and applied projects that include three semester exams and daily practical exams inside the ceremony. Where it includes topics of theoretical lectures shown in the schedule for each week during the first and second semesters and their application through three projects. Reinforced concrete material with all its details. As for the third project, it includes training students to prepare detailed plans for a medium-sized construction hall made of steel with all its details. It is possible to allocate the last three weeks of each design project to make detailed plans for a selected part of the project, which provides an opportunity for students to learn about various construction solutions. and integrated details</p> |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية | <p>students to learn about various construction solutions. and integrated details The student will be able to understand the structural materials and then know how to employ what he learned in his designs after knowing about the nature of the use of each of the structural systems, whether bricks, wood, cement or iron and the types of their structures</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Indicative Contents<br>المحتويات الإرشادية                | <p><u>architectural creative thinking by developing his architectural information (20hrs)</u><br/> <u>developing his drawing capabilities (10hrs)</u><br/> <u>building his architectural memory by viewing architectural products with pictures and</u></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

|  |                                                                                                                                                                                                                                                                                                                             |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | videos. (10hrs)<br>Learn how to show by professional hand drawing and in different styles, watercolors, acrylic markers, etc (10hrs)<br>Performing all that is required of drawing class assignments from drawing projects in all their stages and showing them at a high professional level through manual drawing (30hrs) |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

|            |                                                                                                                                                                                                                                                                                                       |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategies | Knowledge and understanding<br>a- Knowledge and understanding<br>To learn how to design the required system<br>To learn how to describe the structural system<br>To learn what are the international standards and measurements regarding the installation material<br>To learn how to draw a diagram |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Student Workload (SWL)

الحمل الدراسي للطالب

|                                                                         |     |                                                                     |     |
|-------------------------------------------------------------------------|-----|---------------------------------------------------------------------|-----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطالب خلال الفصل       | 63  | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطالب أسبوعياً       | 4.2 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطالب خلال الفصل | 37  | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطالب أسبوعياً | 2.4 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطالب خلال الفصل              | 100 |                                                                     |     |

### Module Evaluation

تقييم المادة الدراسية

|                      |                 | Time/Number | Weight (Marks)   | Week Due | Relevant Learning Outcome |
|----------------------|-----------------|-------------|------------------|----------|---------------------------|
| Formative assessment | Quizzes         | .5          | 10% (10)         | 5, 10    | LO #1, 2, 10 and 11       |
|                      | Assignments     | 2           | 10% (10)         | 2, 12    | LO # 3, 4, 6 and 7        |
|                      | Projects / Lab. |             |                  |          |                           |
|                      | Report          | 1           | 10% (10)         | 13       | LO # 5, 8 and 10          |
| Summative assessment | Midterm Exam    | 2 hr        | 10% (20)         | 7        | LO # 1-7                  |
|                      | Final Exam      | 2hr         | 50% (50)         | 16       | All                       |
| Total assessment     |                 |             | 100% (100 Marks) |          |                           |

### Delivery Plan (Weekly Syllabus)

المنهاج الأسبوعي النظري

|  |                  |
|--|------------------|
|  | Material Covered |
|--|------------------|

### Delivery Plan (Weekly Lab. Syllabus)

المنهاج الأسبوعي للمختبر

|        |                                                                                                                                                                                                                           |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | Material Covered                                                                                                                                                                                                          |
| Week 1 | Introducing the student to the objectives of the subject, its importance and its direct relationship to architectural design, the importance of architectural details, arranging and producing plans in their final form. |
| Week 2 | The nature of the building, the structural units and elements that make up the building, the structural (construction) systems, how to assemble the structural elements, and the types of joints between them.            |
| Week 3 | Concrete and reinforced concrete material, its types and structural specifications, and how can we benefit from its properties and ability to form                                                                        |
| Week 4 | Structural behaviors of the basic structural parts and elements that make up the building in terms of the structural structure, the forces affecting it, and the nature of the loads to which the building is exposed.    |
| Week 5 | Types of stresses applied to the building, stress intensity, moments and forces affecting the building and                                                                                                                |

|         |                                                                                                                                                                                                                                                                          |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | their impact                                                                                                                                                                                                                                                             |
| Week 6  | Foundations, their requirements, principles of selection, types, differential settlement, why it occurs and how it is treated, with a focus on the raft foundation, methods of tanking protection, and how to construct basements for multi-storey buildings.            |
| Week 7  | Systems of loads transmission in vertical buildings                                                                                                                                                                                                                      |
| Week 8  | Roof structures Functional requirements for roofs, their classification methods, their building materials, characteristics of each type, and their structural materials Trusses and Girders                                                                              |
| Week 9  | Shell Roofs: Their types, construction materials, and construction methods. Folded slab (plates) Roofs. Grid Roof structures.                                                                                                                                            |
| Week 10 | Shell Roofs: Their types, construction materials, and construction methods. Folded slab (plates) Roofs - Grid Roof structures                                                                                                                                            |
| Week 11 | Tension roof structures Air stable or pneumatic Roof structures                                                                                                                                                                                                          |
| Week 12 | The external envelop of the building, which includes the external walls of the building and its functional and environmental requirements and types, and focus on the systems of the external walls of multi-storey buildings, which are infill's, cladding, and facing. |
| Week 13 | Internal divisions: These include partitions and walls that are light in weight and easy to remove and install                                                                                                                                                           |
| Week 14 | Ceilings, suspended ceiling and suspended floors                                                                                                                                                                                                                         |

#### Learning and Teaching Resources

مصادر التعلم والتدريس

|                   | Text                                    | Available in the Library? |
|-------------------|-----------------------------------------|---------------------------|
| Required Texts    | Steveth edition R.barry architect v 1-5 | Yes                       |
| Recommended Texts |                                         | No                        |
| Websites          |                                         |                           |

#### Grading Scheme

مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A - Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                             | C - Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                             | E - Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 - 49)      | FX - Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F - Fail         | راسب                | (0-44)    | Considerable amount of work required  |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

#### Module Information

معلومات المادة الدراسية

| Module Title | Freehand Drawing III | Module Delivery                                                                                                                                                           |
|--------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Type  | C                    | <input checked="" type="checkbox"/> Theory<br><input checked="" type="checkbox"/> Lecture<br><input checked="" type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial |
| Module Code  | Arch2413             |                                                                                                                                                                           |
| ECTS Credits | 4                    |                                                                                                                                                                           |

|                                    |                          |                               |                                                                                              |       |
|------------------------------------|--------------------------|-------------------------------|----------------------------------------------------------------------------------------------|-------|
| SWL (hr/sem)                       | <u>100</u>               |                               | <input checked="" type="checkbox"/> Practical<br><input checked="" type="checkbox"/> Seminar |       |
| Module Level                       | UGII                     | Semester of Delivery          |                                                                                              | 4     |
| Administering Department           | Architecture Engineering | College                       | University of Babylon                                                                        |       |
| Module Leader                      | Name                     | e-mail                        | E-mail                                                                                       |       |
| Module Leader's Acad. Title        | Professor                | Module Leader's Qualification |                                                                                              | Ph.D. |
| Module Tutor                       | Name (if available)      | e-mail                        | E-mail                                                                                       |       |
| Peer Reviewer Name                 | Name                     | e-mail                        | E-mail                                                                                       |       |
| Scientific Committee Approval Date | 01/06/2023               | Version Number                | 1.0                                                                                          |       |

| Relation with other Modules<br>العلاقة مع المواد الدراسية الأخرى |      |          |  |
|------------------------------------------------------------------|------|----------|--|
| Prerequisite module                                              | None | Semester |  |
| Co-requisites module                                             | None | Semester |  |

| Module Aims, Learning Outcomes and Indicative Contents<br>أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                                                                               | <p>Developing student skills in the use of watercolors, posters, pastels and oil colors, using advanced techniques.</p> <p>Developing the student's ability to control the implementation of complex shapes and advanced color techniques.</p> <p>Practical practice of how to show projects through color perspectives and benefit from them in design materials.</p> <p>Strengthening the student's skills in converting what is going on in his mind into an image that can be perceived through free drawing. Introducing the student to the most important Iraqi and Arab artistic movements and artists. This comes through theoretical lectures accompanied by a visual display of their work, as well as the visits that students make to places where artworks are displayed inside Iraq. Introducing the student to ceramic materials and sculpture and his sense of mass through some exercises in clay and gypsum that help him In increasing his skills in showing his designed projects, especially the stereoscopic ones, and giving them a more beautiful and close to reality image.</p> <p>Implementation of graphic drawings, watercolors, and others for selected regions in the region in which the student resides. Work was done with the design works at the beginning of the third academic year.</p> <p>Optional fee: Additional hours practiced by the student of his choice and from all academic levels, where the following is confirmed: The student chooses a subject in which he participates in the exhibitions held in the department and with the various techniques. Provides additional assignments for the various subjects that the student has completed. - Providing the student with experiences in addition to his general academic curriculum.</p> |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية                                                          | 1- Acquaint the student with art and architecture<br>2- To familiarize the student with the capabilities of scientific criticism<br>3- Know the basics of architectural design<br>4- Identify the elements of architectural design<br>5- Learn the principles of architectural design                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Indicative Contents<br>المحتويات الإرشادية                                                                         | Study theories of art extensively and broadly (8hrs)<br>Learn about artistic practices of all kinds (8hrs)<br>Studying different drawing methods by getting acquainted with watercolors, acrylics and markers (8hrs)<br>Engaging in development courses for artistic faculties in drawing Methods (8hrs)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>Taking remedial courses in technical planning methods and studying scale drawing (8hrs)</p> <p>Accurately perform the duties assigned to the student and try to repeat them (8hrs)</p> <p>Trying to draw silent life constantly (8hrs)</p> <p>Drawing the largest number of paintings of buildings and architectural structures and discovering the resulting errors (7hrs)</p> <p>Studying technical drawing methods through the computer through different drawing programs (7hrs)</p> |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Learning and Teaching Strategies

#### استراتيجيات التعلم والتعليم

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategies | The strategies of the curriculum are divided into first: distant goals such as building a generation of architects capable of innovation that has high architectural taste and intermediate goals through building contemporary architectural thought that is able to combine contemporary, preservation and close goals through developing the student's architectural talents and providing them with intellectual and technical tools. |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Student Workload (SWL)

#### الحمل الدراسي للطالب

|                                                                         |     |                                                                     |     |
|-------------------------------------------------------------------------|-----|---------------------------------------------------------------------|-----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطالب خلال الفصل       | 105 | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطالب أسبوعياً       | 7   |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطالب خلال الفصل | 70  | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطالب أسبوعياً | 4.6 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطالب خلال الفصل              | 175 |                                                                     |     |

### Module Evaluation

#### تقييم المادة الدراسية

| As                   |                 | Time/Number | Weight (Marks)   | Week Due   | Relevant Learning Outcome |
|----------------------|-----------------|-------------|------------------|------------|---------------------------|
| Formative assessment | Quizzes         |             |                  |            |                           |
|                      | Assignments     | 2           | 30% (30)         | 2, 12      | LO # 3, 4, 6 and 7        |
|                      | Projects / Lab. | 3           | 40% (40)         | Continuous |                           |
| Summative assessment | Midterm Exam    | 2 hr        | 30% (30)         | 7          | LO # 1-7                  |
|                      |                 |             |                  |            | All                       |
| Total assessment     |                 |             | 100% (100 Marks) |            |                           |

### Delivery Plan (Weekly Syllabus)

#### المنهاج الأسبوعي النظري

### Delivery Plan (Weekly Lab. Syllabus)

#### المنهاج الأسبوعي للمختبر

| Week   | Material Covered                                                                     |
|--------|--------------------------------------------------------------------------------------|
|        | The first part of the curriculum takes Four hours per week during the first semester |
| Week 1 | Figures Studying: Drawing figures                                                    |
| Week 2 | Drawing by using the colors                                                          |
| Week 3 | Drawing Perspective for a building                                                   |
| Week 4 | Drawing different types of floors                                                    |
| Week 5 | Examination                                                                          |

|         |                                                                                                           |
|---------|-----------------------------------------------------------------------------------------------------------|
| Week 6  | Definition of the principles of modern painting                                                           |
| Week 7  | Eliciting the colors :two – coloured ; three coloured                                                     |
| Week 8  | Eliciting the tones                                                                                       |
| Week 9  | Drawing modern boards                                                                                     |
| Week 10 | In details, studying the landscape                                                                        |
| Week 11 | Describing the principles of the perspective in building                                                  |
| Week 12 | Drawing perspective for certain building                                                                  |
| Week 13 | Examination                                                                                               |
| Week 14 | Figures Studying: Drawing figures                                                                         |
| Week 15 | Drawing by using the colors                                                                               |
| Week    | Material Covered<br>The Second part of the curriculum takes Four hours per week during the first semester |
| Week 1  | Drawing perspective for building reflecting the architectural details and surrounding environment.        |
| Week 2  | Drawing the civil engineering and the surrounding building                                                |
| Week 3  | Drawing the engineering gollape building foursing on the garedens around it                               |
| Week 4  | Drawing the electrical engineering department using the wooden colours                                    |
| Week 5  | Exercise on drawing the types of techniques used in reflection                                            |
| Week 6  | Drawing buildings with their environments using the watercolors                                           |
| Week 7  | Drawing same building appearances and evaluate the stage                                                  |
| Week 8  | The stage of sculpturing by using clay ,formation clay shapes                                             |
| Week 9  | Making some shapes by using the clay                                                                      |
| Week 10 | Drawing inner perspective for certain building                                                            |
| Week 11 | Drawing inner perspective for the building of civil building                                              |
| Week 12 | Drawing perspective for high building by using the wooden colours                                         |
| Week 13 | Drawing perspective for building reflecting the architectural details and surrounding environment.        |

#### Learning and Teaching Resources

مصادر التعلم والتدريس

|                   | Text                                          | Available in the Library? |
|-------------------|-----------------------------------------------|---------------------------|
| Required Texts    | Book of free manual drawing<br>Figure Drawing | Yes                       |
| Recommended Texts |                                               | No                        |
| Websites          |                                               |                           |

#### Grading Scheme

مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A - Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                             | C - Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                             | E - Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 – 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

#### Module Information

معلومات المادة الدراسية

|                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                               |                                                                                                                                                                                                                                       |                                              |
|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Module Title                                                                                                       | Architectural Design IV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                               | Module Delivery                                                                                                                                                                                                                       |                                              |
| Module Type                                                                                                        | C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                               | <input checked="" type="checkbox"/> Theory<br>Lecture<br><input checked="" type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial<br><input checked="" type="checkbox"/> Practical<br><input checked="" type="checkbox"/> Seminar |                                              |
| Module Code                                                                                                        | Arch2311                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                               |                                                                                                                                                                                                                                       |                                              |
| ECTS Credits                                                                                                       | 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                               |                                                                                                                                                                                                                                       |                                              |
| SWL (hr/sem)                                                                                                       | 225                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                               |                                                                                                                                                                                                                                       |                                              |
| Module Level                                                                                                       | UGII                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Semester of Delivery          |                                                                                                                                                                                                                                       | 3                                            |
| Administering Department                                                                                           | Architecture Engineering                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | College                       | University of Babylon                                                                                                                                                                                                                 |                                              |
| Module Leader                                                                                                      | Name: Dr.Hussam Jabbar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                               | e-mail                                                                                                                                                                                                                                | E-mail<br>Eng.hussam.jabbar@uobabylon.end.iq |
| Module Leader's Acad. Title                                                                                        | Professor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Module Leader's Qualification |                                                                                                                                                                                                                                       | Ph.D.                                        |
| Module Tutor                                                                                                       | Name (if available)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                               | e-mail                                                                                                                                                                                                                                | E-mail<br>Eng.hussam.jabbar@uobabylon.end.iq |
| Peer Reviewer Name                                                                                                 | Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | e-mail                        | E-mail<br>Eng.hussam.jabbar@uobabylon.end.iq                                                                                                                                                                                          |                                              |
| Scientific Committee Approval Date                                                                                 | 01/06/2023                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Version Number                | 1.0                                                                                                                                                                                                                                   |                                              |
| Relation with other Modules<br>العلاقة مع المواد الدراسية الأخرى                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                               |                                                                                                                                                                                                                                       |                                              |
| Prerequisite module                                                                                                | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                               | Semester                                                                                                                                                                                                                              |                                              |
| Co-requisites module                                                                                               | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                               | Semester                                                                                                                                                                                                                              |                                              |
| Module Aims, Learning Outcomes and Indicative Contents<br>أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                               |                                                                                                                                                                                                                                       |                                              |
| Module Aims<br>أهداف المادة الدراسية                                                                               | The year in the architectural study represents an important transitional stage that moves the student from the stage of preparing designs of an abstract defining nature (which is represented in the first grade) to a more comprehensive stage in defining what architecture is (utility, durability and beauty), with an emphasis on the concept of local privacy and integration with the context and urban landscape.                                                                                                                                                                                                                                                                                                                                                                                                                                    |                               |                                                                                                                                                                                                                                       |                                              |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية                                                          | 1- Acquaint the student with art and architecture<br>2- To familiarize the student with the capabilities of scientific criticism<br>3- Know the basics of architectural design<br>4- Identify the elements of architectural design<br>5- Learn the principles of architectural design                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                               |                                                                                                                                                                                                                                       |                                              |
| Indicative Contents<br>المحتويات الإرشادية                                                                         | Developing the capabilities of the student's artistic (10hrs)<br>architectural creative thinking by developing his architectural information (10hrs)<br>developing his drawing capabilities (20hrs)<br>building his architectural memory by viewing architectural products with pictures and videos. (10hrs)<br>The student's memory is also developed by feeding it with the biographies of international architects and architecture masters (10hrs)<br>Learn advanced drawing programs such as AutoCAD (15hrs)<br>Learn how to show by professional hand drawing and in different styles, watercolors, acrylic markers, etc (15hrs)<br>Performing all that is required of drawing class assignments from drawing projects in all their stages and showing them at a high professional level through manual drawing or by means of computer program (30hrs) |                               |                                                                                                                                                                                                                                       |                                              |

### Student Workload (SWL)

الحمل الدراسي للطالب

|                                                                         |     |                                                                     |    |
|-------------------------------------------------------------------------|-----|---------------------------------------------------------------------|----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطالب خلال الفصل       | 180 | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطالب أسبوعياً       | 12 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطالب خلال الفصل | 120 | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطالب أسبوعياً | 8  |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطالب خلال الفصل              | 300 |                                                                     |    |

### Module Evaluation for Architectural Design IV

تقييم المادة الدراسية للتصميم المعماري

|                      |              | Time/Number | Weight (Marks) | Week Due            | Relevant Learning Outcome |
|----------------------|--------------|-------------|----------------|---------------------|---------------------------|
| Formative assessment | Quizzes/     |             |                |                     |                           |
|                      | Assignments  | 10          | 25% (25)       | 2, 4,5,6,7, 9,10,11 |                           |
|                      | Projects     | 2           | 15% (15)       | Continuous          |                           |
|                      | Report       |             |                |                     |                           |
| Summative assessment | Midterm Exam | 2           | 10%            | 12,14               |                           |
|                      | Final Exam   |             |                |                     | All                       |
| Total assessment     |              |             | 50% (50 Marks) |                     |                           |

### Delivery Plan (Weekly Syllabus)

المنهاج الأسبوعي النظري

|  |                  |
|--|------------------|
|  | Material Covered |
|--|------------------|

### Delivery Plan (Weekly Lab. Syllabus)

المنهاج الأسبوعي للمختبر

|            |                                                                                                                                                                                                                                                                                                                                                                       |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | Material Covered<br>The first part of the curriculum takes nine hours per week during the first semester                                                                                                                                                                                                                                                              |
| Week 1-2   | A simple introductory project, the aim of which is to retrieve the information that the student was exposed to in the first stage and to create a mental warm-up to transfer the student from the abstract stage to a stage characterized by realism and functionalism. During this period, the summer homework required of the students is discussed and evaluated.  |
| Week 3 -14 | The project of designing a residence house aims to identify the design principles of specialized buildings. By preparing the initial and then final designs for the project, which takes about 6-8 weeks, while the second stage includes preparing the signature and compilation designs and some main components, which takes about 2-4 weeks. The student repeats. |

### Learning and Teaching Resources

مصادر التعلم والتدريس

|                   | Text                                                                                 | Available in the Library? |
|-------------------|--------------------------------------------------------------------------------------|---------------------------|
| Required Texts    | -Neufert Architecture s Data<br>-Architectural Design Data<br>-Landscape Architectre | Yes                       |
| Recommended Texts |                                                                                      | No                        |
| Websites          |                                                                                      |                           |

### Grading Scheme

مخطط الدرجات

| Group | Grade | التقدير | Marks (%) | Definition |
|-------|-------|---------|-----------|------------|
|-------|-------|---------|-----------|------------|

|                             |                  |                     |          |                                       |
|-----------------------------|------------------|---------------------|----------|---------------------------------------|
| Success Group<br>(50 - 100) | A - Excellent    | امتياز              | 90 - 100 | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 - 89  | Above average with some errors        |
|                             | C - Good         | جيد                 | 70 - 79  | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 - 69  | Fair but with major shortcomings      |
|                             | E - Sufficient   | مقبول               | 50 - 59  | Work meets minimum criteria           |
| Fail Group<br>(0 - 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)  | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)   | Considerable amount of work required  |
|                             |                  |                     |          |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

| Module Information<br>معلومات المادة الدراسية |                                  |                          |                                                                                                                                                                                                                                                                                                        |                       |                      |
|-----------------------------------------------|----------------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------|
| Module Title                                  | Principle of Computer Graphic II |                          | Module Delivery                                                                                                                                                                                                                                                                                        |                       |                      |
| Module Type                                   | B                                |                          | <div><input checked="" type="checkbox"/> Theory</div> <div><input type="checkbox"/> Lecture</div> <div><input checked="" type="checkbox"/> Lab</div> <div><input type="checkbox"/> Tutorial</div> <div><input type="checkbox"/> Practical</div> <div><input checked="" type="checkbox"/> Seminar</div> |                       |                      |
| Module Code                                   | Arch2415                         |                          |                                                                                                                                                                                                                                                                                                        |                       |                      |
| ECTS Credits                                  | 4                                |                          |                                                                                                                                                                                                                                                                                                        |                       |                      |
| SWL (hr/sem)                                  | 100                              |                          |                                                                                                                                                                                                                                                                                                        |                       |                      |
| Module Level                                  |                                  | UGII                     |                                                                                                                                                                                                                                                                                                        |                       | Semester of Delivery |
| Administering Department                      |                                  | Architecture Engineering | College                                                                                                                                                                                                                                                                                                | University of Babylon |                      |
| Module Leader                                 | Dr. Hussam Jabbar Abass          |                          | e-mail                                                                                                                                                                                                                                                                                                 |                       |                      |
| Module Leader's Acad. Title                   |                                  | Professor                | Module Leader's Qualification                                                                                                                                                                                                                                                                          |                       | Ph.D.                |
| Module Tutor                                  | Name (if available)              |                          | e-mail                                                                                                                                                                                                                                                                                                 | E-mail                |                      |
| Peer Reviewer Name                            |                                  | Name                     | e-mail                                                                                                                                                                                                                                                                                                 | E-mail                |                      |
| Scientific Committee Approval Date            |                                  | 01/06/2023               | Version Number                                                                                                                                                                                                                                                                                         |                       | 1.0                  |

| Relation with other Modules<br>العلاقة مع المواد الدراسية الأخرى |  |      |          |
|------------------------------------------------------------------|--|------|----------|
| Prerequisite module                                              |  | None | Semester |
| Co-requisites module                                             |  | None | Semester |

| Module Aims, Learning Outcomes and Indicative Contents<br>أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية |                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                                                                               | Autodesk 3Ds Max Design Essentials Training provides a thorough grounding in 3Ds Max Design Software.<br>On completing the course you will be able to produce basic 3D modeling, apply material, rendering the scene and create animation.                                                                                                                                  |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية                                                          | The primary objective of this course is to teach students the essentials of working in 3D using an array of features and tools. This course teaches new users the basics of creating, embellishing, and animating 3D scenes. After completing this course, student should be able to do:<br>1. Model objects using a variety of techniques<br>2. Design and apply materials |

|                                            |                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                            | 3. Adjust basic lighting<br>4. Animate simple objects<br>5. Build and animate simple, effective environments<br>6. To enhance the computing skills of the students.                                                                                                                                                         |
| Indicative Contents<br>المحتويات الإرشادية | 1- Making 3D Modelling and designs for various buildings and converting them into 3D shapes that mimic reality (10hu)<br>2- Simulating reality in terms of placing raw materials, real natural lighting, and cameras (10hu)<br>3- Produce photos and videos (10hu)<br>4- Adding movements to the scene to make it realistic |

#### Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

|            |                                                                                                                                         |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Strategies | 1- The student develop his abilities by making a lot of architectural Models<br>2- To develop the scene in terms of camera and lighting |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------|

#### Student Workload (SWL)

الحمل الدراسي للطلاب

|                                                                         |    |                                                                    |     |
|-------------------------------------------------------------------------|----|--------------------------------------------------------------------|-----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطلاب خلال الفصل       | 48 | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطلاب أسبوعيا       | 3.2 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطلاب خلال الفصل | 27 | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطلاب أسبوعيا | 1.8 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطلاب خلال الفصل              | 75 |                                                                    |     |

#### Module Evaluation

تقييم المادة الدراسية

|                      |                                         | Time/Number | Weight (Marks)   | Week Due | Relevant Learning Outcome |
|----------------------|-----------------------------------------|-------------|------------------|----------|---------------------------|
| Formative assessment | الاختبارات<br>Quizzes                   | 1           | 14% (14)         | 5, 10    | LO #1, 2, 10 and 11       |
|                      | Projects                                |             | 8% (8)           |          | LO # 5, 8 and 10          |
|                      | المختبر<br>Lab                          |             | 8% (8)           |          | LO # 5, 8 and 10          |
|                      | واجبات بيئية<br>online assignment       |             |                  |          |                           |
|                      | واجبات داخل الكلية<br>onsite assignment |             | 10% (10)         |          | LO # 5, 8 and 10          |
|                      | Report                                  |             |                  |          |                           |
| Summative assessment | حلقات دراسية                            |             |                  |          |                           |
|                      | Midterm Exam                            | 2 hr        | 10% (10)         | 7        | LO # 1-7                  |
|                      | Final Exam                              | 3hr         | 50% (50)         | 16       | All                       |
| Total assessment     |                                         |             | 100% (100 Marks) |          |                           |

#### Delivery Plan (Weekly Lab. Syllabus)

المنهاج الأسبوعي للمختبر

|        | Material Covered                                                                                                                                                                                                                                                                                                          |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Week 1 | INTRODUCTION , Introduction — The 3DS Max Interface <ul style="list-style-type: none"> <li>Navigate the 3DS Max User Interface and Workspace</li> <li>Transforming Objects Using Gizmos</li> <li>Graphite Modeling Tools Set</li> <li>Command Panel</li> <li>Time Slider and Track Bar</li> <li>File Managemen</li> </ul> |
| Week 2 | 3DS Max First Project,                                                                                                                                                                                                                                                                                                    |

|         |                                                                                                                                                                                                                                                                                                      |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | <ul style="list-style-type: none"> <li>• Setting Up a Project Workflow</li> <li>• Clock Modeling</li> <li>• Spline Modifier</li> <li>• Bringing It All Together</li> </ul>                                                                                                                           |
| Week 3  | Modeling in 3DS Max:<br>Architecture Model - Part 1 <ul style="list-style-type: none"> <li>• Units Setup</li> <li>• Importing a CAD Drawing</li> <li>• Creating the Walls</li> <li>• Creating the Doors</li> <li>• Creating the Window</li> <li>• Adding the Floor and Ceiling</li> </ul>            |
| Week 4  | Modeling in 3DS Max: <ul style="list-style-type: none"> <li>• Architecture Model - Part 2</li> <li>• Modeling the Couch</li> <li>• Modeling the Lounge Chair</li> </ul>                                                                                                                              |
| Week 5  | Introduction to Animation <ul style="list-style-type: none"> <li>• Animating the Ball</li> <li>• Refining the Animation</li> </ul>                                                                                                                                                                   |
| Week 6  | Animation Principles <ul style="list-style-type: none"> <li>• Anticipation and Momentum in Knife Throwing</li> </ul>                                                                                                                                                                                 |
| Week 7  | Character Poly Modeling -Part 1 <ul style="list-style-type: none"> <li>• Setting Up the Scene</li> <li>• Soldier Modeling</li> </ul>                                                                                                                                                                 |
| Week 8  | Character Poly Modeling -Part 2 <ul style="list-style-type: none"> <li>• Completing the Main Body</li> <li>• Creating the Accessories</li> <li>• Putting On the Boot</li> <li>• Creating the Hands</li> </ul>                                                                                        |
| Week 9  | Character Poly Modeling -Part 3 <ul style="list-style-type: none"> <li>• Creating the Head</li> <li>• Merging and Attaching the Head's Accessories</li> </ul>                                                                                                                                        |
| Week 10 | Examination                                                                                                                                                                                                                                                                                          |
| Week 11 | Introduction to the Materials: Interiors and Furniture <ul style="list-style-type: none"> <li>• The Slate Material Editor</li> <li>• Material Types</li> <li>• Mental Ray Material Types</li> <li>• Shades</li> <li>• Mapping the Couch and Chair</li> <li>• Mapping the Window and Doors</li> </ul> |
| Week 12 | Textures and UV Workflows: The Soldier <ul style="list-style-type: none"> <li>• UV Unwrapping</li> <li>• Seaming the Rest of the Body</li> <li>• Applying the Color Map</li> <li>• Applying the Bump Map</li> <li>• Applying the Specular Map</li> </ul>                                             |
| Week 13 | Character Studio: Rigging <ul style="list-style-type: none"> <li>• Character Studio Workflow</li> <li>• Associating a Biped with the Soldier Model</li> </ul> Character Studio: Animation <ul style="list-style-type: none"> <li>• Animating the Soldier</li> </ul>                                  |
| Week 14 | Introduction to Lighting: Interior Lighting <ul style="list-style-type: none"> <li>• Three-Point Lighting</li> <li>• 3DS Max Lights</li> <li>• Lighting the Still Life in the Interior Space</li> <li>• selecting a Shadow Type</li> </ul>                                                           |

|         |                                                                                                                                                                                                                                                                                                                                                                               |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | <ul style="list-style-type: none"> <li>Atmospheres and Effects</li> <li>Light Lister</li> </ul>                                                                                                                                                                                                                                                                               |
| Week 15 | 3DS Max Rendering <ul style="list-style-type: none"> <li>Rendering Setup</li> <li>Cameras</li> <li>Safe Frames</li> <li>Ray traced Reflections and Refractions.</li> <li>Rendering the Interior and Furniture</li> </ul> MENTAL RAY <ul style="list-style-type: none"> <li>Mental Ray Renderer</li> <li>Final Gather with Mental Ray</li> <li>Mental Ray Materials</li> </ul> |

### Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

|  |                  |
|--|------------------|
|  | Material Covered |
|--|------------------|

### Learning and Teaching Resources

مصادر التعلم والتدريس

|                   | Text                                                                                                                                                           | Available in the Library? |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Required Texts    | <ul style="list-style-type: none"> <li>User's Reference Volume II Published By: Autodesk, Inc.</li> </ul>                                                      | No                        |
| Recommended Texts | <ul style="list-style-type: none"> <li>Autodesk 3ds Max 2025 Basics Guide By Kelly L. Murdock</li> <li>Autodesk 3ds Max 2022 Fundamentals By ASCENT</li> </ul> | No                        |
| Websites          |                                                                                                                                                                |                           |

### Grading Scheme

مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A – Excellent    | امتياز              | 90 – 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 – 89   | Above average with some errors        |
|                             | C – Good         | جيد                 | 70 – 79   | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 – 69   | Fair but with major shortcomings      |
|                             | E – Sufficient   | مقبول               | 50 – 59   | Work meets minimum criteria           |
| Fail Group<br>(0 – 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

### Module Information

معلومات المادة الدراسية

|              |                          |                                                                                                                                       |
|--------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Module Title | Architectural Drawing IV | Module Delivery                                                                                                                       |
| Module Type  | C                        | <input checked="" type="checkbox"/> Theory<br>Lecture<br><input checked="" type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial |
| Module Code  | Arch2312                 |                                                                                                                                       |
| ECTS Credits | 3                        |                                                                                                                                       |

|                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                     |                                                                                              |       |
|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------|
| SWL (hr/sem)                                                                                                       | 75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                     | <input checked="" type="checkbox"/> Practical<br><input checked="" type="checkbox"/> Seminar |       |
| Module Level                                                                                                       | UGII                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Semester of Delivery                                                |                                                                                              | 3     |
| Administering Department                                                                                           | Architecture Engineering                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | College                                                             | University of Babylon                                                                        |       |
| Module Leader                                                                                                      | Name:DR.HUSSAM JABBAR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | e-mail                                                              | E-mail<br>Eng.hussam.jabbar@uobabylon.end.iq                                                 |       |
| Module Leader's Acad. Title                                                                                        | Professor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Module Leader's Qualification                                       |                                                                                              | Ph.D. |
| Module Tutor                                                                                                       | Name (if available)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | e-mail                                                              | E-mail<br>Eng.hussam.jabbar@uobabylon.end.iq                                                 |       |
| Peer Reviewer Name                                                                                                 | Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | e-mail                                                              | E-mail<br>Eng.hussam.jabbar@uobabylon.end.iq                                                 |       |
| Scientific Committee Approval Date                                                                                 | 01/06/2023                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Version Number                                                      | 1.0                                                                                          |       |
| Relation with other Modules<br>العلاقة مع المواد الدراسية الأخرى                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                     |                                                                                              |       |
| Prerequisite module                                                                                                | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Semester                                                            |                                                                                              |       |
| Co-requisites module                                                                                               | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Semester                                                            |                                                                                              |       |
| Module Aims, Learning Outcomes and Indicative Contents<br>أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                     |                                                                                              |       |
| Module Aims<br>أهداف المادة الدراسية                                                                               | The year in the architectural study represents an important transitional stage that moves the student from the stage of preparing designs of an abstract defining nature (which is represented in the first grade) to a more comprehensive stage in defining what architecture is (utility, durability and beauty), with an emphasis on the concept of local privacy and integration with the context and urban landscape.                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                     |                                                                                              |       |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية                                                          | 1- Acquaint the student with art and architecture<br>2- To familiarize the student with the capabilities of scientific criticism<br>3- Know the basics of architectural design<br>4- Identify the elements of architectural design<br>5- Learn the principles of architectural design                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                     |                                                                                              |       |
| Indicative Contents<br>المحتويات الإرشادية                                                                         | Developing the capabilities of the student's artistic (10hrs)<br>architectural creative thinking by developing his architectural information (10hrs)<br>developing his drawing capabilities (20hrs)<br>building his architectural memory by viewing architectural products with pictures and videos. (10hrs)<br>The student's memory is also developed by feeding it with the biographies of international architects and architecture masters (10hrs)<br>Learn advanced drawing programs such as AutoCAD (15hrs)<br>Learn how to show by professional hand drawing and in different styles, watercolors, acrylic markers, etc (15hrs)<br>Performing all that is required of drawing class assignments from drawing projects in all their stages and showing them at a high professional level through manual drawing or by means of computer program (30hrs) |                                                                     |                                                                                              |       |
| Student Workload (SWL)<br>الحمل الدراسي للطالب                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                     |                                                                                              |       |
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطالب خلال الفصل                                                  | 180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطالب أسبوعياً       | 12                                                                                           |       |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطالب خلال الفصل                                            | 120                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطالب أسبوعياً | 8                                                                                            |       |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطالب خلال الفصل                                                         | 300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                     |                                                                                              |       |

### Module Evaluation for **Architectural Drawing IV**

تقييم المادة الدراسية للرسم المعماري

|                      |              | Time/Number | Weight (Marks) | Week Due        | Relevant Learning Outcome |
|----------------------|--------------|-------------|----------------|-----------------|---------------------------|
| Formative assessment | Quizzes/     |             |                |                 |                           |
|                      | Assignments  | 5           | 25% (25)       | 2, 5, ,7 ,10,11 |                           |
|                      | Projects     | 4           | 20% (15)       | Continuous      |                           |
|                      | Report       |             |                |                 |                           |
| Summative assessment | Midterm Exam | 2           | 10% (10)       | 8, 14           |                           |
|                      | Final Exam   |             |                |                 | All                       |
| Total assessment     |              |             | 50% (50 Marks) |                 |                           |

### Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

|  |                  |
|--|------------------|
|  | Material Covered |
|--|------------------|

### Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

|  |                                                                                                                                                           |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Material Covered                                                                                                                                          |
|  | The first part of the curriculum takes nine hours per week during the first semester                                                                      |
|  | An introductory lecture/exhibition of students' drawings explaining the different techniques                                                              |
|  | 2D Drawings - Drawing horizontal plans of different buildings (PLANS) and site plans.                                                                     |
|  | Drawing vertical sections (SECTIONS) with an emphasis on the method of displaying in ink and colors.                                                      |
|  | Drawing and displaying interfaces (ELEVATIONS).                                                                                                           |
|  | Regular semester exam                                                                                                                                     |
|  | Three-dimensional drawings - isometric / types and uses / drawing cuboids and vaults                                                                      |
|  | Isometric drawing of a cylinder and a wall with openings of different shapes / a composition exercise that includes different shapes, with drawing levels |
|  | Drawing the dome and other shapes, drawing a more complex composition.                                                                                    |
|  | Complex isometric test.                                                                                                                                   |
|  | Internal isometric-, method of drawing, examples, exercise, assignment The student draws an internal isometric for his design project.                    |
|  | External Isometric + Homework The student draws an external isometric for his design project.                                                             |
|  | Perspective - Lecture on the concept and its properties. Perspective with two vanishing points. The cube in different positions.                          |
|  | The cube in perspective - a complement to the other cases - drawing other simple shapes.                                                                  |
|  | Perspective - the multiple vanishing points, the geometric composition in perspective.                                                                    |
|  | Exam - Geometric composition in perspective.                                                                                                              |

### Learning and Teaching Resources

مصادر التعلم والتدريس

|                   | Text                                                                   | Available in the Library? |
|-------------------|------------------------------------------------------------------------|---------------------------|
| Required Texts    | -Site construction Details<br>-Pencil Skeching<br>-Perspective Drawing | Yes                       |
| Recommended Texts |                                                                        | No                        |
| Websites          |                                                                        |                           |

### Grading Scheme

مخطط الدرجات

| Group | Grade | التقدير | Marks (%) | Definition |
|-------|-------|---------|-----------|------------|
|-------|-------|---------|-----------|------------|

|                             |                  |                     |          |                                       |
|-----------------------------|------------------|---------------------|----------|---------------------------------------|
| Success Group<br>(50 - 100) | A - Excellent    | امتياز              | 90 - 100 | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 - 89  | Above average with some errors        |
|                             | C - Good         | جيد                 | 70 - 79  | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 - 69  | Fair but with major shortcomings      |
|                             | E - Sufficient   | مقبول               | 50 - 59  | Work meets minimum criteria           |
| Fail Group<br>(0 - 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)  | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)   | Considerable amount of work required  |
|                             |                  |                     |          |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

### المستوى الثالث – الفصل الأول

## MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information

معلومات المادة الدراسية

|                                    |                          |                                                                                                                                                                                                                 |                                                                                    |
|------------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Module Title                       | Structure II             | Module Delivery                                                                                                                                                                                                 |                                                                                    |
| Module Type                        | S                        | <input checked="" type="checkbox"/> Theory<br>Lecture<br><input type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial<br><input checked="" type="checkbox"/> Practical<br><input type="checkbox"/> Seminar |                                                                                    |
| Module Code                        | EnAr St III 3 024 02     |                                                                                                                                                                                                                 |                                                                                    |
| ECTS Credits                       | 2                        |                                                                                                                                                                                                                 |                                                                                    |
| SWL (hr/sem)                       | 50                       |                                                                                                                                                                                                                 |                                                                                    |
| Module Level                       | UGx11 UGIII              | Semester of Delivery                                                                                                                                                                                            | Five                                                                               |
| Administering Department           | Architecture Engineering | College                                                                                                                                                                                                         | Engineering College                                                                |
| Module Leader                      | Hussein talab Al-wetify  | e-mail                                                                                                                                                                                                          | <a href="mailto:eng.hussein.t@uobabylon.edu.iq">eng.hussein.t@uobabylon.edu.iq</a> |
| Module Leader's Acad. Title        | Asst. Professor          | Module Leader's Qualification                                                                                                                                                                                   | Ph.D.                                                                              |
| Module Tutor                       |                          | e-mail                                                                                                                                                                                                          |                                                                                    |
| Peer Reviewer Name                 | N.A                      | e-mail                                                                                                                                                                                                          | N.A                                                                                |
| Scientific Committee Approval Date | 01/06/2023               | Version Number                                                                                                                                                                                                  | 1.0                                                                                |

### Relation with other Modules

العلاقة مع المواد الدراسية الأخرى

|                      |      |          |  |
|----------------------|------|----------|--|
| Prerequisite module  | None | Semester |  |
| Co-requisites module | None | Semester |  |

### Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                      | This course aims at developing the student's abilities to calculate simple stresses on beams, structural members, and axial bearing members, as well as calculating strains. It also aims to teach the student about stress and the resulting emotions. Teaching the student to draw shear diagrams and bending moments. As well as calculating the compound stresses and addressing the Mohr circle and transferring stresses.                                                                             |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية | 1) The student will be able to calculate all types of stresses resulting from the external loads imposed on it.<br>2) The student will be able to draw shear diagrams and bending moment diagrams.<br>3) Enabling the student at the expense of all kinds of strains and deformations.<br>4) Enabling the student to calculate the axial deformations of all structural members. 5) The student is able to transfer stresses between levels.<br>6) The student will be able to calculate compound stresses. |
| Indicative Contents<br>المحتويات الإرشادية                | <ul style="list-style-type: none"> <li>- Basic concepts and simple stress (3hr.)</li> <li>- Simple strain and deformations of axially loaded (3hr.)</li> <li>- Torsion (3hr.)</li> <li>- Shear force diagrams and bending moment diagrams (3hr.)</li> <li>- Bending stress and shearing stress (3hr.)</li> <li>- Compound stress (2hr.)</li> </ul>                                                                                                                                                          |

### Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategies | Adequate explanation of the scientific material and the use of the method of interactive education with students and discussion in all the details of the scientific material and taking many practical and applied examples so that the student is able to absorb the material. Clarifying the scientific lecture using advanced presentation methods such as calculators and screens, and displaying many pictures of engineering projects that are |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

under construction for the student to understand the scientific material.

### Student Workload (SWL)

الحمل الدراسي للطالب

|                                                                         |    |                                                                     |      |
|-------------------------------------------------------------------------|----|---------------------------------------------------------------------|------|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطالب خلال الفصل       | 33 | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطالب أسبوعياً       | 2.2  |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطالب خلال الفصل | 17 | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطالب أسبوعياً | 1.13 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطالب خلال الفصل              | 50 |                                                                     |      |

### Module Evaluation

تقييم المادة الدراسية

| As                   |                 | Time/Number | Weight (Marks)   | Week Due | Relevant Learning Outcome |
|----------------------|-----------------|-------------|------------------|----------|---------------------------|
| Formative assessment | Quizzes         | .5          | 10% (10)         | 5, 10    | LO #1, 2, 10 and 11       |
|                      | Assignments     | 2           | 10% (10)         | 2, 12    | LO # 3, 4, 6 and 7        |
|                      | Projects / Lab. |             |                  |          |                           |
|                      | Report          | 1           | 10% (10)         | 13       | LO # 5, 8 and 10          |
| Summative assessment | Midterm Exam    | 2 hr        | 10% (20)         | 7        | LO # 1-7                  |
|                      | Final Exam      | 3 hr        | 50% (50)         | 16       | All                       |
| Total assessment     |                 |             | 100% (100 Marks) |          |                           |

### Delivery Plan (Weekly Syllabus)

المنهاج الأسبوعي النظري

| Week       | Material Covered                                  |
|------------|---------------------------------------------------|
| Week 1     | Basic concepts and simple stress.                 |
| Week 2-3   | Simple strain and deformations of axially loaded. |
| Week 4-6   | Torsion.                                          |
| Week 7     | Midterm Exam.                                     |
| Week 8-10  | Shear force diagrams and bending moment diagrams. |
| Week 11-12 | Bending stress and shearing stress                |
| Week 13-15 | Compound stress                                   |
| Week 16    | Final Exam.                                       |

### Delivery Plan (Weekly Lab. Syllabus)

المنهاج الأسبوعي للمختبر

| Week | There is no lab. |
|------|------------------|
|------|------------------|

### Learning and Teaching Resources

مصادر التعلم والتدريس

|                   | Text                                                                                                                                    | Available in the Library? |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Required Texts    | Singer (strength of materials).                                                                                                         | Yes                       |
| Recommended Texts | Popov ( introduction to mechanics of solids).                                                                                           | No                        |
| Websites          | <a href="https://www.google.com/search?client=firefox-b-d&amp;q=Popov">https://www.google.com/search?client=firefox-b-d&amp;q=Popov</a> |                           |

### Grading Scheme

مخطط الدرجات

| Group         | Grade         | التقدير | Marks (%) | Definition              |
|---------------|---------------|---------|-----------|-------------------------|
| Success Group | A - Excellent | امتياز  | 90 - 100  | Outstanding Performance |

|                        |                  |                     |         |                                       |
|------------------------|------------------|---------------------|---------|---------------------------------------|
| (50 - 100)             | B - Very Good    | جيد جدا             | 80 - 89 | Above average with some errors        |
|                        | C - Good         | جيد                 | 70 - 79 | Sound work with notable errors        |
|                        | D - Satisfactory | متوسط               | 60 - 69 | Fair but with major shortcomings      |
|                        | E - Sufficient   | مقبول               | 50 - 59 | Work meets minimum criteria           |
| Fail Group<br>(0 - 49) | FX – Fail        | راسب (قيد المعالجة) | (45-49) | More work required but credit awarded |
|                        | F – Fail         | راسب                | (0-44)  | Considerable amount of work required  |
|                        |                  |                     |         |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

| Module Information<br>معلومات المادة الدراسية |                        |                 |                                                                                                                                                                                                                                                                                              |                   |                      |
|-----------------------------------------------|------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------|
| Module Title                                  | Sanitary Services      |                 | Module Delivery                                                                                                                                                                                                                                                                              |                   |                      |
| Module Type                                   | S                      |                 | <div><input checked="" type="checkbox"/> Theory<br/>Lecture</div> <div><input checked="" type="checkbox"/> Lab</div> <div><input checked="" type="checkbox"/> Tutorial</div> <div><input checked="" type="checkbox"/> Practical</div> <div><input checked="" type="checkbox"/> Seminar</div> |                   |                      |
| Module Code                                   | En Ar BS 3 025 05      |                 |                                                                                                                                                                                                                                                                                              |                   |                      |
| ECTS Credits                                  | 2                      |                 |                                                                                                                                                                                                                                                                                              |                   |                      |
| SWL (hr/sem)                                  | 50                     |                 |                                                                                                                                                                                                                                                                                              |                   |                      |
| Module Level                                  |                        | UGIII           |                                                                                                                                                                                                                                                                                              |                   | Semester of Delivery |
| Administering Department                      |                        | Type Dept. Code | College                                                                                                                                                                                                                                                                                      | Type College Code |                      |
| Module Leader                                 | Name: harith Al-Salman |                 | e-mail                                                                                                                                                                                                                                                                                       | E-mail            |                      |
| Module Leader's Acad. Title                   |                        | Professor       | Module Leader's Qualification                                                                                                                                                                                                                                                                |                   | Ph.D.                |
| Module Tutor                                  | Name (if available)    |                 | e-mail                                                                                                                                                                                                                                                                                       | E-mail            |                      |
| Peer Reviewer Name                            |                        | Name            | e-mail                                                                                                                                                                                                                                                                                       | E-mail            |                      |
| Scientific Committee Approval Date            |                        | 01/06/2026      | Version Number                                                                                                                                                                                                                                                                               |                   | 1.0                  |

| Relation with other Modules<br>العلاقة مع المواد الدراسية الأخرى |      |  |          |
|------------------------------------------------------------------|------|--|----------|
| Prerequisite module                                              | None |  | Semester |
| Co-requisites module                                             | None |  | Semester |

| Module Aims, Learning Outcomes and Indicative Contents<br>أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                                                                               | Sanitary Services : Introducing the architectural student to the basic design of health services (designing cold and hot water networks, normal and heavy water and rain water, as well as the principles of waste collection and disposal for low and multi-storey buildings). The student will also learn about the principles of designing swimming pools, bathrooms, and sanitary facilities, and the principles of their perpendicular shedding, methods of mechanical feeding of water, and water drainage systems in them with different possibilities, through a set of live examples chosen for this purpose. |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية                                                          | Knowledge:<br>- Understanding sanitary systems and public health principles.<br>- Knowledge of plumbing materials and standards.<br>Skills:<br>- Layout of basic sanitary service drawings.                                                                                                                                                                                                                                                                                                                                                                                                                            |

|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                            | <ul style="list-style-type: none"> <li>- Coordination between architectural and service systems.</li> </ul> Values: <ul style="list-style-type: none"> <li>- Commitment to public health standards.</li> <li>- Environmental responsibility.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Indicative Contents<br>المحتويات الإرشادية | Sanitary Services <ul style="list-style-type: none"> <li>- Introducing the architectural student to the basic design of health services (designing cold and hot water networks). (3hrs)</li> <li>- normal and heavy water and rain water, as well as the principles of waste collection and disposal for low and multi-storey buildings). (3hrs)</li> <li>- The student will also learn about the principles of designing swimming pools, bathrooms, and sanitary facilities, (3hrs)</li> <li>- and the principles of their perpendicular shedding, methods of mechanical feeding of water, and water drainage systems in them with different possibilities, (3hrs)</li> <li>- through a set of live examples chosen for this purpose. (3hrs)</li> <li>- Swimming pools: - Types - Type - Architectural design, feeding and drainage networks - Design sterilization methods disinfection (3hrs)</li> <li>- Design of bathrooms and sanitary facilities - bath room design (3hrs)</li> <li>- Refuse storage system: The different methods of waste collection in residential buildings and multi-storey buildings and their relationship to the architectural design of those buildings. (3hrs)</li> <li>- Layout of bathroom for different type (3hrs)</li> </ul> |

#### Learning and Teaching Strategies

##### استراتيجيات التعلم والتعليم

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategies | The strategies of the curriculum are divided into first: distant goals such as building a generation of architects capable of innovation that has high architectural taste and intermediate goals through building contemporary architectural thought that is able to combine contemporary, preservation and close goals through developing the student's architectural talents and providing them with intellectual and technical tools |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### Student Workload (SWL)

##### الحمل الدراسي للطالب

|                                                                         |     |                                                                     |     |
|-------------------------------------------------------------------------|-----|---------------------------------------------------------------------|-----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطالب خلال الفصل       | 93  | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطالب أسبوعياً       | 6.2 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطالب خلال الفصل | 57  | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطالب أسبوعياً | 3.8 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطالب خلال الفصل              | 150 |                                                                     |     |

#### Module Evaluation

##### تقييم المادة الدراسية

| As                   |                 | Time/Number | Weight (Marks)   | Week Due | Relevant Learning Outcome |
|----------------------|-----------------|-------------|------------------|----------|---------------------------|
| Formative assessment | Quizzes         | .5          | 10% (10)         | 5, 10    | LO #1, 2, 10 and 11       |
|                      | Assignments     |             |                  |          |                           |
|                      | Projects / Lab. |             |                  |          |                           |
|                      | Report          | 1           | 10% (10)         | 8        |                           |
| Summative assessment | Midterm Exam    | 2 hr        | 30% (30)         | 13       | LO # 1-7                  |
|                      | Final Exam      | 3hr         | 50% (50)         | 15       | All                       |
| Total assessment     |                 |             | 100% (100 Marks) |          |                           |

#### Module Evaluation

##### تقييم المادة الدراسية

|  | Time/Number | Weight (Marks) | Week Due | Relevant Learning |
|--|-------------|----------------|----------|-------------------|
|--|-------------|----------------|----------|-------------------|

| As                   |                 |      |                  |       | Outcome             |
|----------------------|-----------------|------|------------------|-------|---------------------|
| Formative assessment | Quizzes         | .5   | 10% (10)         | 5, 10 | LO #1, 2, 10 and 11 |
|                      | Assignments     |      |                  |       |                     |
|                      | Projects / Lab. |      |                  |       |                     |
|                      | Report          | 1    | 10% (10)         | 8     |                     |
| Summative assessment | Midterm Exam    | 2 hr | 30% (30)         | 13    | LO # 1-7            |
|                      | Final Exam      | 3hr  | 50% (50)         | 15    | All                 |
| Total assessment     |                 |      | 100% (100 Marks) |       |                     |

Module Evaluation Services ,Sanitary  
تقييم المادة الدراسية

| As                   |                 | Time/Number | Weight (Marks)   | Week Due | Relevant Learning Outcome |
|----------------------|-----------------|-------------|------------------|----------|---------------------------|
| Formative assessment | Quizzes         | .5          | 10% (10)         | 5, 10    | LO #1, 2, 10 and 11       |
|                      | Assignments     |             |                  |          |                           |
|                      | Projects / Lab. |             |                  |          |                           |
|                      | Report          | 1           | 10% (10)         | 8        |                           |
| Summative assessment | Midterm Exam    | 2 hr        | 30% (30)         | 13       | LO # 1-7                  |
|                      | Final Exam      | 3hr         | 50% (50)         | 15       | All                       |
| Total assessment     |                 |             | 100% (100 Marks) |          |                           |

Delivery Plan (Weekly Syllabus)  
المنهاج الاسبوعي النظري

| Week       | Material Covered                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | Sanitary Services : The first part of the curriculum takes two hours per week during the first semester                                                                                                                                                                                                                                                                                                                                                                                           |
| Week 1-8   | Design of hot and cold water networks for single-storey and multi-storey buildings Plumbing: -- Water supply pipe sizing. (Hot and cold water) sanitary installations, types, costs, fixtures, rainwater drainage networks for buildings, drainage system, ventilation networks for sewage pipes for buildings, ventilation systems, types of pipes used in networks, pips material, all of these paragraphs study their relationship to the architectural design of buildings. of different use. |
| Week 9-12  | Swimming pools: - Types - Type - Architectural design, feeding and drainage networks - Design sterilization methods disinfection - Design of bathrooms and sanitary facilities - bath room design                                                                                                                                                                                                                                                                                                 |
| Week 13-14 | Refuse storage system: The different methods of waste collection in residential buildings and multi-storey buildings and their relationship to the architectural design of those buildings.                                                                                                                                                                                                                                                                                                       |
| Week 15-16 | Layout of bathroom for different type                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|            | Material Covered<br>Air- Conditioning Services: The Second part of the curriculum takes two hours per week during the first semester                                                                                                                                                                                                                                                                                                                                                              |

Delivery Plan (Weekly Lab. Syllabus)  
المنهاج الاسبوعي للمختبر

| Week | Material Covered |
|------|------------------|
|------|------------------|

Learning and Teaching Resources  
مصادر التعلم والتدريس

|                   | Text | Available in the Library? |
|-------------------|------|---------------------------|
| Required Texts    |      | Yes                       |
| Recommended Texts |      | No                        |
| Websites          |      |                           |

Grading Scheme  
مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A - Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                             | C - Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                             | E - Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 - 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

| Module Information<br>معلومات المادة الدراسية |                                 |                              |                                                                                                                                                                                                                                       |                                 |       |
|-----------------------------------------------|---------------------------------|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------|
| Module Title                                  | Architectural Design V          |                              | Module Delivery                                                                                                                                                                                                                       |                                 |       |
| Module Type                                   | Core                            |                              | <input checked="" type="checkbox"/> Theory<br>Lecture<br><input checked="" type="checkbox"/> Lab<br><input checked="" type="checkbox"/> Tutorial<br><input checked="" type="checkbox"/> Practical<br><input type="checkbox"/> Seminar |                                 |       |
| Module Code                                   | Arch3511                        |                              |                                                                                                                                                                                                                                       |                                 |       |
| ECTS Credits                                  | 12                              |                              |                                                                                                                                                                                                                                       |                                 |       |
| SWL (hr/sem)                                  | 300                             |                              |                                                                                                                                                                                                                                       |                                 |       |
| Module Level                                  |                                 | UGxIII                       | Semester of Delivery                                                                                                                                                                                                                  |                                 | 5     |
| Administering Department                      |                                 | Type Dept. Code              | College                                                                                                                                                                                                                               | Type College Code               |       |
| Module Leader                                 | Dr. Ali Aumran Lattif Al-Thahab |                              | e-mail                                                                                                                                                                                                                                | Eng.ali.aumran@uobabylon.Org.iq |       |
| Module Leader’s Acad. Title                   |                                 | Assistant ProfessorProfessor | Module Leader’s Qualification                                                                                                                                                                                                         |                                 | Ph.D. |
| Module Tutor                                  | Name (if available)             |                              | e-mail                                                                                                                                                                                                                                | E-mail                          |       |
| Peer Reviewer Name                            |                                 | Name                         | e-mail                                                                                                                                                                                                                                | E-mail                          |       |
| Scientific Committee Approval Date            |                                 | 01/06/2023                   | Version Number                                                                                                                                                                                                                        |                                 | 1.0   |

| Relation with other Modules<br>العلاقة مع المواد الدراسية الأخرى |      |          |  |
|------------------------------------------------------------------|------|----------|--|
| Prerequisite module                                              | None | Semester |  |
| Co-requisites module                                             | None | Semester |  |

| Module Aims, Learning Outcomes and Indicative Contents<br>أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                                                                               | The third academic year is considered the final stage of the information base in the field of architectural design, where the student gets acquainted with complex and multi-functional projects for their various exploitation and service spaces. Structural decisions and implementation technology are at the forefront of the design proposal, through choices for projects with requirements for short and medium-term construction seas that can be implemented through reinforced concrete structures or iron structures through which the student will be introduced to the most important construction details that must be known in this field and with practical support so that work is done on a project The first semester within the SFB system and an application for the design project in the first semester with Building Installation (III) for the second semester and throughout the |

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                           | academic year.                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية | The subject is the most important in the architecture department of all universities. Preparing the student to enter the labor market after graduation and take responsibility for designing and implementing construction projects are the main goals of this subject.                                                                                                                                                                   |
| Indicative Contents<br>المحتويات الإرشادية                | <ol style="list-style-type: none"> <li>1. Developing student's creativity and strength their design abilities through a group of exercises. 20hr</li> <li>2. Delivering design concepts based on principles that deal with human needs. 30hr</li> <li>3. Different assignments to elevate student awareness of the specific design problem. 40hr</li> <li>4. Stages of projects: fulfill submission requirements. 30hr</li> </ol> (120hr) |

| Learning and Teaching Strategies<br>استراتيجيات التعلم والتعليم |                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategies                                                      | <p>The main strategy of architectural design at this stage is based on;</p> <ul style="list-style-type: none"> <li>• Student participation in the design studio through pre-design studies</li> <li>• Multi-function design projects</li> <li>• Design project depending on Team work.</li> </ul> |

| Student Workload (SWL)<br>الحمل الدراسي للطلاب                          |     |                                                                    |    |
|-------------------------------------------------------------------------|-----|--------------------------------------------------------------------|----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطلاب خلال الفصل       | 180 | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطلاب أسبوعيا       | 12 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطلاب خلال الفصل | 120 | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطلاب أسبوعيا | 8  |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطلاب خلال الفصل              | 300 |                                                                    |    |

| Module Evaluation<br>تقييم المادة الدراسية |                 |             |                 |            |                           |
|--------------------------------------------|-----------------|-------------|-----------------|------------|---------------------------|
| As                                         |                 | Time/Number | Weight (Marks)  | Week Due   | Relevant Learning Outcome |
| Formative assessment                       | Quizzes         |             |                 |            | LO #1, 2, 10 and 11       |
|                                            | Assignments     | 15          | 10% (20)        | 2, 12      | LO # 3, 4, 6 and 7        |
|                                            | Projects / Lab. | 11          | 10% (20)        | Continuous |                           |
|                                            | Report          |             |                 | 13         | LO # 5, 8 and 10          |
| Summative assessment                       | Midterm Exam    | 10          | 10% (10)        | 7          | LO # 1-7                  |
|                                            | Final Exam      |             |                 | 16         | All                       |
| Total assessment                           |                 |             | 100% (50 Marks) |            |                           |

| Delivery Plan (Weekly Syllabus)<br>المنهاج الأسبوعي النظري |                  |
|------------------------------------------------------------|------------------|
| Week                                                       | Material Covered |

| Delivery Plan (Weekly Lab. Syllabus)<br>المنهاج الأسبوعي للمختبر / الكورس الأول |                                                               |
|---------------------------------------------------------------------------------|---------------------------------------------------------------|
| Week                                                                            | Material Covered                                              |
| Week 1-4                                                                        | Summer training reports discussion - Rapid project submission |
| Week 5-15                                                                       | Multi story Functional project continues to the course end.   |

| Delivery Plan (Weekly Lab. Syllabus)<br>المنهاج الأسبوعي للمختبر / الكورس الثاني |  |
|----------------------------------------------------------------------------------|--|
|----------------------------------------------------------------------------------|--|

| Week      | Material Covered                                        |
|-----------|---------------------------------------------------------|
| Week 5-15 | Multi story Functional project works to the course end. |

| Learning and Teaching Resources<br>مصادر التعلم والتدريس |      |                           |
|----------------------------------------------------------|------|---------------------------|
|                                                          | Text | Available in the Library? |
| Required Texts                                           |      | Yes                       |
| Recommended Texts                                        |      | No                        |
| Websites                                                 |      |                           |

| Grading Scheme<br>مخطط الدرجات |                  |                     |           |                                       |
|--------------------------------|------------------|---------------------|-----------|---------------------------------------|
| Group                          | Grade            | التقدير             | Marks (%) | Definition                            |
| Success Group<br>(50 - 100)    | A - Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                                | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                                | C - Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                                | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                                | E - Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 - 49)         | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                                | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |
|                                |                  |                     |           |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

| Module Information<br>معلومات المادة الدراسية |                               |                 |                                                                                                                                                                                                                 |                                       |       |
|-----------------------------------------------|-------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------|
| Module Title                                  | Building Construction VI      |                 | Module Delivery                                                                                                                                                                                                 |                                       |       |
| Module Type                                   | Core                          |                 | <input checked="" type="checkbox"/> Theory<br>Lecture<br><input checked="" type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial<br><input type="checkbox"/> Practical<br><input type="checkbox"/> Seminar |                                       |       |
| Module Code                                   | Arch3512                      |                 |                                                                                                                                                                                                                 |                                       |       |
| ECTS Credits                                  | 4                             |                 |                                                                                                                                                                                                                 |                                       |       |
| SWL (hr/sem)                                  | 100                           |                 |                                                                                                                                                                                                                 |                                       |       |
| Module Level                                  |                               | UGx11 1         | Semester of Delivery                                                                                                                                                                                            |                                       | 5     |
| Administering Department                      |                               | Type Dept. Code | College                                                                                                                                                                                                         | Type College Code                     |       |
| Module Leader                                 | Prof. Dr. Mohammed Salah Nasr |                 | e-mail                                                                                                                                                                                                          | eng511.mohammed.nasr@uobabylon.edu.iq |       |
| Module Leader's Acad. Title                   |                               | Professor       | Module Leader's Qualification                                                                                                                                                                                   |                                       | Ph.D. |
| Module Tutor                                  | Name (if available)           |                 | e-mail                                                                                                                                                                                                          | E-mail                                |       |
| Peer Reviewer Name                            |                               | Name            | e-mail                                                                                                                                                                                                          | E-mail                                |       |
| Scientific Committee Approval Date            |                               | 01/06/2026      | Version Number                                                                                                                                                                                                  | 2.0                                   |       |

| Relation with other Modules<br>العلاقة مع المواد الدراسية الأخرى |      |          |  |
|------------------------------------------------------------------|------|----------|--|
| Prerequisite module                                              | None | Semester |  |
| Co-requisites module                                             | None | Semester |  |

| Module Aims, Learning Outcomes and Indicative Contents<br>أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                                                                               | <ul style="list-style-type: none"> <li>- Introducing the importance of the structural system of a building and its close relationship with the design process, as the selection of an appropriate structural system for each building directly interacts with its function and final external form.</li> <li>- Addressing the importance of architectural details and the role they play in building design and in the execution process, in order to ensure construction accuracy, as well as enhancing the designer's ability to clearly express the main architectural features of the building.</li> <li>- Introducing the types of drawings produced by the architect, such as design drawings, working drawings, shop drawings, and as-built drawings, and the requirements of each type to ensure they serve their intended purpose.</li> </ul> <p>Teaching students how to produce and organize detailed working drawings in general, how to present them properly, with emphasis on multi-storey structural buildings made of reinforced concrete, and structures incorporating steel beams.</p> |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية                                                          | <p>General introduction<br/>Construction methods – types of structures<br/>Building nature and structural elements<br/>Concrete: components and manufacturing<br/>Reinforced concrete<br/>Structural behavior of building elements<br/>Types of applied stresses<br/>Load transfer systems<br/>Exam<br/>Building services (heating and cooling)<br/>Steel: components and manufacturing<br/>Types of steel structures<br/>Steel structure cladding<br/>Internal partitions and types of floors<br/>Steel staircases</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Indicative Contents<br>المحتويات الإرشادية                                                                         | <p>architectural creative thinking by developing his architectural information (20hrs(<br/>developing his drawing capabilities (10hrs(<br/>building his architectural memory by viewing architectural products with pictures and videos. ( 10hrs(<br/>Learn how to show by professional hand drawing and in different styles, watercolors, acrylic markers, etc (10hrs (</p> <p>Performing all that is required of drawing class assignments from drawing projects in all their stages and showing them at a high professional level through manual drawing) (30hrs</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

| Learning and Teaching Strategies<br>استراتيجيات التعلم والتعليم |                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategies                                                      | <p>Knowledge and understanding<br/>a- Knowledge and understanding<br/>To learn how to design the required system<br/>To learn how to describe the structural system<br/>To learn what are the international standards and measurements regarding the installation material<br/>To learn how to draw a diagram</p> |

| Student Workload (SWL)<br>الحمل الدراسي للطالب                    |    |                                                               |     |
|-------------------------------------------------------------------|----|---------------------------------------------------------------|-----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطالب خلال الفصل | 93 | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطالب أسبوعياً | 6.2 |
| Unstructured SWL (h/sem)                                          | 57 | Unstructured SWL (h/w)                                        | 3.8 |

|                                                            |     |                                          |  |
|------------------------------------------------------------|-----|------------------------------------------|--|
| الحمل الدراسي غير المنتظم للطالب خلال الفصل                |     | الحمل الدراسي غير المنتظم للطالب أسبوعيا |  |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطالب خلال الفصل | 150 |                                          |  |

Module Evaluation  
تقييم المادة الدراسية

| As                   |                 | Time/Number | Weight (Marks)   | Week Due   | Relevant Learning Outcome |
|----------------------|-----------------|-------------|------------------|------------|---------------------------|
| Formative assessment | Quizzes         | 1           | 10% (5)          | 5, 10      | LO #1, 2, 10 and 11       |
|                      | Assignments     | 2           | 10% (5)          | 2, 12      | LO # 3, 4, 6 and 7        |
|                      | Projects / Lab. | 1           | 10% (10)         | Continuous |                           |
|                      | Report          | 1           | 10% (10)         | 13         | LO # 5, 8 and 10          |
| Summative assessment | Midterm Exam    | 2 hr        | 10% (20)         | 7          | LO # 1-7                  |
|                      | Final Exam      | 2hr         | 50% (50)         | 16         | All                       |
| Total assessment     |                 |             | 100% (100 Marks) |            |                           |

Delivery Plan (Weekly Syllabus)  
المنهاج الاسبوعي النظري

| Week | Material Covered |
|------|------------------|
|------|------------------|

Delivery Plan (Weekly Lab. Syllabus)  
المنهاج الاسبوعي للمختبر

| Week    | Material Covered                                                                                                                                                                                              |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Week 1  | Stairs and Ramps Types of stairs, especially reinforced concrete stairs, site casting and precast, different construction methods for construction and their construction behavior. Upgrades Ramps for people |
| Week 2  | Building Services Services HVAC heating and cooling services, systems and supplies inside the building                                                                                                        |
| Week 3  | Electrical services, lighting, establishments, and getting acquainted with some of the symbols used in health services plans                                                                                  |
| Week 4  | Communication services and special services                                                                                                                                                                   |
| Week 5  | Steel Structures / Iron Material Extraction, Components, Types, Characteristics and Disadvantages                                                                                                             |
| Week 6  | Types of basic structural structures of steel and its basic structural sections                                                                                                                               |
| Week 7  | Methods of linking elements and basic sections of steel structures, and methods of connecting basic sections with each other.                                                                                 |
| Week 8  | Methods of strengthening steel structures against lateral and horizontal forces ( Bracing                                                                                                                     |
| Week 9  | Methods of externally wrapping steel structures for ceilings and walls, methods of attaching and isolating them environmentally, thermally and acoustically, with details of openings.                        |
| Week 10 | Interior cutting, types of floors, intermediate floors, structures and finishing materials                                                                                                                    |
| Week 11 | Steel stairs, types and methods of their construction, concrete and their details                                                                                                                             |
| Week 12 | Structural structures composed of steel and concrete and their details                                                                                                                                        |
| Week 13 | S F B/CI system and circulating tables                                                                                                                                                                        |
| Week 14 | Applying the S F B / C I system to the plans and types of plans that this system deals with                                                                                                                   |

Learning and Teaching Resources  
مصادر التعلم والتدريس

|                   | Text                                                                                                                                                                                                                                                                                                                         | Available in the Library? |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Required Texts    |                                                                                                                                                                                                                                                                                                                              | Yes                       |
| Recommended Texts | <ul style="list-style-type: none"> <li>Building Construction (Anis Jawad)</li> <li>Building Construction and Building Technology (Dr. Mohammed Abdullah)</li> <li>Building Construction (Zuhair Sako and Artin Livon)</li> <li>Prescribed textbooks (curriculum, if available)</li> <li>Main references (sources)</li> </ul> | No                        |

|                                |                  |                     |           |                                       |
|--------------------------------|------------------|---------------------|-----------|---------------------------------------|
| Websites                       |                  |                     |           |                                       |
| Grading Scheme<br>مخطط الدرجات |                  |                     |           |                                       |
| Group                          | Grade            | التقدير             | Marks (%) | Definition                            |
| Success Group<br>(50 - 100)    | A - Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                                | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                                | C - Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                                | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                                | E - Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 – 49)         | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                                | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |
|                                |                  |                     |           |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

| Module Information<br>معلومات المادة الدراسية |                             |                 |                                                                                                                                                                                        |                                              |       |
|-----------------------------------------------|-----------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-------|
| Module Title                                  | History of Architecture III |                 | Module Delivery                                                                                                                                                                        |                                              |       |
| Module Type                                   | S                           |                 | <input checked="" type="checkbox"/> Theory<br>Lecture<br>Lab<br><input type="checkbox"/> Tutorial<br><input type="checkbox"/> Practical<br><input checked="" type="checkbox"/> Seminar |                                              |       |
| Module Code                                   | Arch3514                    |                 |                                                                                                                                                                                        |                                              |       |
| ECTS Credits                                  | 4                           |                 |                                                                                                                                                                                        |                                              |       |
| SWL (hr/sem)                                  | 100                         |                 |                                                                                                                                                                                        |                                              |       |
| Module Level                                  |                             | UGIII           | Semester of Delivery                                                                                                                                                                   |                                              | 6     |
| Administering Department                      |                             | Type Dept. Code | College                                                                                                                                                                                | Type College Code                            |       |
| Module Leader                                 | Name: Hussam Jabbar         |                 | e-mail                                                                                                                                                                                 | E-mail<br>Eng.hussam.jabbar@uobabylon.end.iq |       |
| Module Leader's Acad. Title                   |                             | Professor       | Module Leader's Qualification                                                                                                                                                          |                                              | Ph.D. |
| Module Tutor                                  | Name (if available)         |                 | e-mail                                                                                                                                                                                 | E-mail<br>Eng.hussam.jabbar@uobabylon.end.iq |       |
| Peer Reviewer Name                            |                             | Name            | e-mail                                                                                                                                                                                 | E-mail<br>Eng.hussam.jabbar@uobabylon.end.iq |       |
| Scientific Committee Approval Date            |                             | 01/06/2023      | Version Number                                                                                                                                                                         |                                              | 1.0   |

|                                                                                |      |  |          |
|--------------------------------------------------------------------------------|------|--|----------|
| <b>Relation with other Modules</b><br><b>العلاقة مع المواد الدراسية الأخرى</b> |      |  |          |
| Prerequisite module                                                            | None |  | Semester |
| Co-requisites module                                                           | None |  | Semester |

|                                                                                                                                  |                                                                                                                                                                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Module Aims, Learning Outcomes and Indicative Contents</b><br><b>أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية</b> |                                                                                                                                                                                                                                                                                             |
| Module Aims<br>أهداف المادة الدراسية                                                                                             | The vocabulary of the history of architecture is reviewed based on the method (comparative analysis) and the distinction between the different architectural styles throughout history and on the basis of: geographical location, historical values, climatic and geological descriptions, |

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                           | construction methods used, specifications of ceilings and foundations, while addressing the history of art through its various eras, such as decorations, plastic art, ornaments and others. Other arts, with an emphasis on the origins of urban gatherings of different civilizations. The history course for the third academic year covers the following architectural styles: Greek, Roman, Advanced, Byzantine, Romanesque, Gothic and Renaissance architecture. |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية | 1- Acquaint the student with art and architecture<br>2- To familiarize the student with the capabilities of scientific criticism<br>3- Know the basics of architectural design<br>4- Identify the elements of architectural design<br>5- Learn the principles of architectural design                                                                                                                                                                                  |
| Indicative Contents<br>المحتويات الإرشادية                | Developing the capabilities of the student's artistic (5hrs)<br>architectural creative thinking by developing his architectural information (9hrs)<br>developing his drawing capabilities (6hrs)<br>building his architectural memory by viewing architectural products with pictures and videos. (7hrs)<br>The student's memory is also developed by feeding it with the biographies of international architects and architecture masters (10hrs)                     |

#### Learning and Teaching Strategies

##### استراتيجيات التعلم والتعليم

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategies | The strategies of the curriculum are divided into first: distant goals such as building a generation of architects capable of innovation that has high architectural taste and intermediate goals through building contemporary architectural thought that is able to combine contemporary, preservation and close goals through developing the student's architectural talents and providing them with intellectual and technical tools. |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### Student Workload (SWL)

##### الحمل الدراسي للطالب

|                                                                         |     |                                                                     |     |
|-------------------------------------------------------------------------|-----|---------------------------------------------------------------------|-----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطالب خلال الفصل       | 63  | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطالب أسبوعياً       | 4.2 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطالب خلال الفصل | 37  | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطالب أسبوعياً | 2.4 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطالب خلال الفصل              | 100 |                                                                     |     |

#### Module Evaluation

##### تقييم المادة الدراسية

| As                   | Time/Number     | Weight (Marks)   | Week Due | Relevant Learning Outcome |
|----------------------|-----------------|------------------|----------|---------------------------|
| Formative assessment | Quizzes         | 1                | 10% (10) | 5, 10                     |
|                      | Assignments     |                  |          | LO #1, 2, 10 and 11       |
|                      | Projects / Lab. |                  |          |                           |
|                      | Report          | 1                | 10% (10) | 8                         |
| Summative assessment | Midterm Exam    | 2 hr             | 30% (30) | 13                        |
|                      | Final Exam      | 3hr              | 50% (50) | 15                        |
| Total assessment     |                 | 100% (100 Marks) |          | All                       |

#### Module Evaluation

##### تقييم المادة الدراسية

| As                   | Time/Number     | Weight (Marks) | Week Due | Relevant Learning Outcome |
|----------------------|-----------------|----------------|----------|---------------------------|
| Formative assessment | Quizzes         | 1              | 10% (10) | 5, 10                     |
|                      | Assignments     |                |          | LO #1, 2, 10 and 11       |
|                      | Projects / Lab. |                |          |                           |
|                      | Report          | 1              | 10% (10) | 8                         |

|                      |              |      |                  |    |          |
|----------------------|--------------|------|------------------|----|----------|
| Summative assessment | Midterm Exam | 2 hr | 30% (30)         | 13 | LO # 1-7 |
|                      | Final Exam   | 3hr  | 50% (50)         | 15 | All      |
| Total assessment     |              |      | 100% (100 Marks) |    |          |

Delivery Plan (Weekly Syllabus)  
المنهاج الاسبوعي النظري

|         |                                                                                                                                                                         |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Week    | Material Covered<br>The first part of the curriculum takes two hours per week during the first semester                                                                 |
| Week 1  | Greek architecture, evolution and development                                                                                                                           |
| Week 2  | Greek architecture the most important urban structures and construction methods                                                                                         |
| Week 3  | Greek architecture, hypodamic urban planning                                                                                                                            |
| Week 4  | Greek architecture The architectural theories created by the Greeks (the golden ratio, optical deception) and the model                                                 |
| Week 5  | Roman architecture distinctive architectural features and distinguish them from Greek architecture                                                                      |
| Week 6  | Roman architecture Roman domes and how to create them                                                                                                                   |
| Week 7  | Roman architecture Characteristic examples of Roman architecture                                                                                                        |
| Week 8  | The exam                                                                                                                                                                |
| Week 9  | Advanced Christian architecture Experiments and attempts to transform existing Roman buildings into churches in which Christian rites were practiced                    |
| Week 10 | Advanced Christian architecture Building the Roman basilica and transforming it into a church                                                                           |
| Week 11 | Byzantine architecture taking the Grecian cross as a model for the Byzantine church                                                                                     |
| Week 12 | Byzantine architecture: the construction of domes on the cross arms of the cross and the use of mosaics, and this gave the Byzantine architecture its distinctive style |
| Week 13 | Romanesque architecture The use of semicircular arches and massive buttresses was one of the features of this architecture                                              |
| Week 14 | Romanesque architecture Building religious complexes (cathedrals, monasteries, and schools for monks and nuns                                                           |
|         | Material Covered<br>The Second part of the curriculum takes two hours per week during the first semester                                                                |
| Week 1  | Gothic architecture: Evolution and development                                                                                                                          |
| Week 2  | Gothic architecture Latin cross and church form                                                                                                                         |
| Week 3  | Gothic architecture integrates the meaning of the church with content and content                                                                                       |
| Week 4  | Gothic architecture, the problem of lack of lighting in the chapel                                                                                                      |
| Week 5  | Gothic architecture finding solutions resulting from the use of plane arches in the façades and quadruple and hexagonal arches in the chapel                            |
| Week 6  | Gothic architecture is distinguished examples of French and English churches                                                                                            |
| Week 7  | Exam                                                                                                                                                                    |
| Week 8  | Renaissance architecture Reasons for the emergence of the Renaissance architectural style                                                                               |
| Week 9  | Renaissance architecture Florence Cathedral and Prolonsky architecture                                                                                                  |
| Week 10 | Renaissance architecture spread the style in Rome and then Venice and its spread to Europe                                                                              |
| Week 11 | Renaissance architecture, Palladio's writings, and their impact on the New World                                                                                        |
| Week 12 | Renaissance architecture The emergence of public buildings and axial planning                                                                                           |
| Week 13 | Renaissance architecture Examples of Renaissance buildings and famous architects                                                                                        |
| Week 14 | Renaissance architecture, the decline and decline of style, and the emergence of the Baroque and Rococo movements later                                                 |

Delivery Plan (Weekly Lab. Syllabus)  
المنهاج الاسبوعي للمختبر

|      |                  |
|------|------------------|
| Week | Material Covered |
|------|------------------|

Learning and Teaching Resources  
مصادر التعلم والتدريس

|                |      |                           |
|----------------|------|---------------------------|
|                | Text | Available in the Library? |
| Required Texts |      | Yes                       |

|                   |  |    |
|-------------------|--|----|
| Recommended Texts |  | No |
| Websites          |  |    |

| Grading Scheme<br>مخطط الدرجات |                  |                     |           |                                       |
|--------------------------------|------------------|---------------------|-----------|---------------------------------------|
| Group                          | Grade            | التقدير             | Marks (%) | Definition                            |
| Success Group<br>(50 - 100)    | A - Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                                | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                                | C - Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                                | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                                | E - Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 - 49)         | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                                | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |
|                                |                  |                     |           |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

| Module Information<br>معلومات المادة الدراسية |                                     |                 |                                                                                                                                                                                                                                                     |                                                                                                                |                      |
|-----------------------------------------------|-------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------|
| Module Title                                  | Principles of planning              |                 | Module Delivery                                                                                                                                                                                                                                     |                                                                                                                |                      |
| Module Type                                   | S                                   |                 | <input checked="" type="checkbox"/> Theory<br><input type="checkbox"/> Lecture<br><input type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial<br><input checked="" type="checkbox"/> Practical<br><input checked="" type="checkbox"/> Seminar |                                                                                                                |                      |
| Module Code                                   | Arch3515                            |                 |                                                                                                                                                                                                                                                     |                                                                                                                |                      |
| ECTS Credits                                  | 4                                   |                 |                                                                                                                                                                                                                                                     |                                                                                                                |                      |
| SWL (hr/sem)                                  | 100                                 |                 |                                                                                                                                                                                                                                                     |                                                                                                                |                      |
| Module Level                                  |                                     | UG III          |                                                                                                                                                                                                                                                     |                                                                                                                | Semester of Delivery |
| Administering Department                      |                                     | Type Dept. Code | College                                                                                                                                                                                                                                             | Type College Code                                                                                              |                      |
| Module Leader                                 | Assist. Lect. Baydaa Abd Al-Hussein |                 | e-mail                                                                                                                                                                                                                                              | E-mail<br><a href="mailto:eng226.badia.alhussien@uobabylon.edu.iq">eng226.badia.alhussien@uobabylon.edu.iq</a> |                      |
| Module Leader's Acad. Title                   |                                     | Professor       | Module Leader's Qualification                                                                                                                                                                                                                       |                                                                                                                | Ph.D.                |
| Module Tutor                                  | Name (if available)                 |                 | e-mail                                                                                                                                                                                                                                              | E-mail                                                                                                         |                      |
| Peer Reviewer Name                            |                                     | Name            | e-mail                                                                                                                                                                                                                                              | E-mail                                                                                                         |                      |
| Scientific Committee Approval Date            |                                     | 01/06/2023      | Version Number                                                                                                                                                                                                                                      |                                                                                                                | 1.0                  |

| Relation with other Modules<br>العلاقة مع المواد الدراسية الأخرى |      |          |  |
|------------------------------------------------------------------|------|----------|--|
| Prerequisite module                                              | None | Semester |  |
| Co-requisites module                                             | None | Semester |  |

| Module Aims, Learning Outcomes and Indicative Contents<br>أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية |                                                                                                                                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                                                                               | This module introduces students to the fundamental principles of urban planning, urban development, and city design. It explores the evolution of cities, land-use planning, population forecasting, transportation planning, urban aesthetics, and urban renewal |

|                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                         | strategies. The course aims to develop students' understanding of how cities function and how planning can improve urban environments and quality of life.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Module Learning Outcomes</b><br><b>مخرجات التعلم للمادة الدراسية</b> | <p>Upon successful completion of this module, students will be able to:</p> <ol style="list-style-type: none"> <li>1. Explain the basic concepts, principles, and objectives of urban planning.</li> <li>2. Analyze the historical development and urban form of cities.</li> <li>3. Assess contemporary urban challenges and propose planning responses.</li> <li>4. Apply population forecasting and service-planning methods.</li> <li>5. Identify different land-use categories and evaluate their distribution.</li> <li>6. Interpret major theories of land-use distribution and urban growth.</li> <li>7. Understand the role of master plans, transportation networks, and urban design in city development.</li> <li>8. Evaluate urban landscapes, public spaces, and streetscape elements.</li> <li>9. Discuss urban renewal strategies and the application of information technology in urban planning.</li> </ol> |
| <b>Indicative Contents</b><br><b>المحتويات الإرشادية</b>                | <input type="checkbox"/> Introduction to urban planning concepts and principles.<br><input type="checkbox"/> Evolution of urban form and city development.<br><input type="checkbox"/> Contemporary urban issues and challenges.<br><input type="checkbox"/> Population studies and urban growth forecasting.<br><input type="checkbox"/> Land-use planning and per capita standards.<br><input type="checkbox"/> Theories of land-use distribution and urban structure.                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

| <b>Learning and Teaching Strategies</b><br><b>استراتيجيات التعلم والتعليم</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Strategies</b>                                                             | <p>The objectives of the second course aims to develop the students' concepts about the sustainable city developments as well as aesthetic and beauty concepts, shape the urban scape of the city in all its components. Also, to identify the current impacts of the information and communication revolution on the city and the expected urban changes as a result of information technology, the concepts of urban renewal , privacy in planning and architecture, with a brief overview of the laws of construction, reconstruction and planning.</p> |

| <b>Student Workload (SWL)</b><br><b>الحمل الدراسي للطالب</b>                          |    |                                                                                  |     |
|---------------------------------------------------------------------------------------|----|----------------------------------------------------------------------------------|-----|
| <b>Structured SWL (h/sem)</b><br><b>الحمل الدراسي المنتظم للطالب خلال الفصل</b>       | 33 | <b>Structured SWL (h/w)</b><br><b>الحمل الدراسي المنتظم للطالب أسبوعيا</b>       | 2.5 |
| <b>Unstructured SWL (h/sem)</b><br><b>الحمل الدراسي غير المنتظم للطالب خلال الفصل</b> | 17 | <b>Unstructured SWL (h/w)</b><br><b>الحمل الدراسي غير المنتظم للطالب أسبوعيا</b> | 1.4 |
| <b>Total SWL (h/sem)</b><br><b>الحمل الدراسي الكلي للطالب خلال الفصل</b>              | 50 |                                                                                  |     |

| <b>Module Evaluation</b><br><b>تقييم المادة الدراسية</b> |                 |             |                  |          |                           |
|----------------------------------------------------------|-----------------|-------------|------------------|----------|---------------------------|
| As                                                       |                 | Time/Number | Weight (Marks)   | Week Due | Relevant Learning Outcome |
| Formative assessment                                     | Quizzes         | .5          | 10% (10)         | 5, 10    | LO #1, 2, 10 and 11       |
|                                                          | Assignments     |             |                  |          |                           |
|                                                          | Projects / Lab. |             |                  |          |                           |
|                                                          | Report          | 1           | 10% (10)         | 13       | LO # 5, 8 and 10          |
| Summative assessment                                     | Midterm Exam    | 2 hr        | 30% (30)         | 7        | LO # 1-7                  |
|                                                          | Final Exam      | 2hr         | 50% (50)         | 16       | All                       |
| Total assessment                                         |                 |             | 100% (100 Marks) |          |                           |

| <b>Delivery Plan (Weekly Syllabus)</b><br><b>المنهاج الاسبوعي النظري</b> |                  |
|--------------------------------------------------------------------------|------------------|
| Week                                                                     | Material Covered |

|         |                                                                                                                                                                                                                                                                                                                                                                            |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Week 1  | Sustainable development and urban planning, Sustainable city strategies, Sustainable urban projects .<br>Green belts and the green formation of cities, Analysis of sustainable planning approaches .                                                                                                                                                                      |
| Week 2  | Beauty, Beauty concept, Aesthetics, Beauty and ugliness, Aesthetic need, Concept of aesthetic value,<br>Sense and aesthetic sense, Perception of shapes .<br>The theory of Gestaltism and form , The evaluation activity, Judgment, Aesthetic preference, Aesthetic<br>experience, Beauty assessment criteria, Aesthetic values of a traditional residential environment . |
| Week 3  | Formation of the urban landscape, Urban landscape, Elements of the urban landscape(Paths , Edges ,<br>Districts ,Nodes , Landmarks)<br>The urban spaces and their importance ,Public squares, piazzas(plazzas), and their forms, their types<br>and relation with masses .                                                                                                 |
| Week 4  | Examination                                                                                                                                                                                                                                                                                                                                                                |
| Week 5  | Commercial streets and city centers, The style of dealing with them, Continuity, Homogeneity,<br>Stability, Clarity, Significance and others.<br>Street furniture (street furnishing items), Surface finishes, Lighting and advertising ,Telephone cabins,<br>Garbage bags, Plants.                                                                                        |
| Week 6  | The current impacts of the information and communication revolution on the city, The expected urban<br>changes as a result of ICTs .<br>Urban development and modernization, Urban renewal policies (conservation, rehabilitation,<br>redevelopment).                                                                                                                      |
| Week 7  | Privacy in architecture and planning and its importance in creating local identity and anti-globalization.<br>Building, Construction and Planning Laws and their Impact on the Urban and spatial growth of Cities,<br>Some Construction Controls FCOSR, FAR .                                                                                                              |
| Week 8  | Islamic building plans and Legislation in architecture and planning .<br>Discuss student research .<br>The contemporary city and its problems (population, urban, environmental, social, economic) .                                                                                                                                                                       |
| Week 9  | Planning definition, Structure of the planning process, Planning approaches, Planning reasons, Planning<br>levels, Town Planning .                                                                                                                                                                                                                                         |
| Week 10 | The forms of Urbanized development in the world, France, England, Belgium, Italy, South America and<br>Japan. The planning ideas presented previously by: Ebenezer Howard, Le Corbusier's, Soria Mata,<br>Frank Lloyd Wright .                                                                                                                                             |
| Week 11 | Preparation of Master and sector plans for cities, Residential site planning (residential block, residential<br>neighborhood, residential hay, residential sector , city, urban complex),Site requirements for residential<br>uses .<br>Planning and design of roads .                                                                                                     |
| Week 12 | Population (population growth, number of households per household, economically active population,<br>nature of social life, population pyramid) .                                                                                                                                                                                                                         |
| Week 13 | The land uses of the city, the correct methods of distribution, its proportion within the city, the<br>complications of land uses in contemporary cities, the means used to control them .                                                                                                                                                                                 |
| Week 14 | Theories of the distribution of land uses, Theory of Central Growth: Bergs, Theory of Sectors: Homer<br>Hoyt, Theory of multiple nuclei: Harris and Ullman , Theory of Central place: Walter Christaller .                                                                                                                                                                 |
| Week 15 | Examination .                                                                                                                                                                                                                                                                                                                                                              |

#### Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

| Week | Material Covered |
|------|------------------|
|------|------------------|

#### Learning and Teaching Resources

مصادر التعلم والتدريس

|                   | Text                                                                                                                                                                                                                                                                                                                                                              | Available in the Library? |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Required Texts    |                                                                                                                                                                                                                                                                                                                                                                   | Yes                       |
| Recommended Texts | <ul style="list-style-type: none"> <li>- Hall, P. (2014). Urban and Regional Planning. Routledge.</li> <li>- Carmona, M., Tiesdell, S., Heath, T., Oc, T. (2010). Publ<br/>Places – Urban Spaces.</li> <li>- Friedmann, J. (2011). Planning in the Public Domain: Fro<br/>Knowledge to Action.</li> <li>- Lynch, K. (1984). Good City Form. MIT Press.</li> </ul> | No                        |

|          |  |  |
|----------|--|--|
|          |  |  |
| Websites |  |  |

### Grading Scheme

مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A - Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                             | C - Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                             | E - Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 - 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |
|                             |                  |                     |           |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

### المستوى الثالث – الفصل الثاني

### MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

#### Module Information

معلومات المادة الدراسية

|                                    |                         |                          |                               |                                                                                                                                                                                        |       |
|------------------------------------|-------------------------|--------------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Module Title                       | Methods of Conservation |                          |                               | Module Delivery                                                                                                                                                                        |       |
| Module Type                        | S                       |                          |                               | <input checked="" type="checkbox"/> Theory<br>Lecture<br>Lab<br><input type="checkbox"/> Tutorial<br><input checked="" type="checkbox"/> Practical<br><input type="checkbox"/> Seminar |       |
| Module Code                        | Arch3614                |                          |                               |                                                                                                                                                                                        |       |
| ECTS Credits                       | 4                       |                          |                               |                                                                                                                                                                                        |       |
| SWL (hr/sem)                       | 50                      |                          |                               |                                                                                                                                                                                        |       |
| Module Level                       |                         | UGx11 1                  | Semester of Delivery          |                                                                                                                                                                                        | 6     |
| Administering Department           |                         | Architectural Department | College                       | College of Engineering                                                                                                                                                                 |       |
| Module Leader                      | Name :- Alaa .H. Ubaid  |                          | e-mail                        | E-mail eng.alaa.hadi@uobabylon.edu.iq                                                                                                                                                  |       |
| Module Leader's Acad. Title        |                         | Assist.Professor         | Module Leader's Qualification |                                                                                                                                                                                        | Ms.c. |
| Module Tutor                       | Name (if available)     |                          | e-mail                        | E-mail :- eng.alaa.hadi@uobabylon.edu.iq                                                                                                                                               |       |
| Peer Reviewer Name                 |                         | Name                     | e-mail                        | E-mail                                                                                                                                                                                 |       |
| Scientific Committee Approval Date |                         | 01/06/2023               | Version Number                |                                                                                                                                                                                        | 1.0   |

#### Relation with other Modules

العلاقة مع المواد الدراسية الأخرى

|                      |      |          |  |
|----------------------|------|----------|--|
| Prerequisite module  | None | Semester |  |
| Co-requisites module | None | Semester |  |

#### Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                      | <p>Introducing the student to an important and vital topic, which is the topic of preserving the architectural heritage, which is a specialized scientific field concerned with matters of protection, prevention and rehabilitation of buildings and sites of distinguished historical and heritage value.</p> <p>The lesson deals with the basic principles and concepts of the subject, starting with the concept of heritage and cultural and architectural heritage and the objectives of protecting and preserving it, and the basic concepts of detecting, recording and documenting distinguished architectural heritage, and then choosing the appropriate treatment method, and methods for restoring, rehabilitating and reviving preserved buildings for contemporary uses with exposure to many applied examples. local, Arab and international</p> |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية | Graduated architects with knowledge of the method of preserving and rehabilitating historical buildings, as the process of preserving and rehabilitating is part of the process of planning, design and urban renewal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Indicative Contents<br>المحتويات الإرشادية                | 1- Supporting the educational process of conservation methods by using conservation examples and the method of preserving them in an applied manner by informing students about preservation methods such as using forms and field tours in traditional old areas and preparing reports collectively with weekly lectures using on-site and electronic projectors in Areport:- (25 hours)                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

#### Learning and Teaching Strategies

##### استراتيجيات التعلم والتعليم

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategies | <ol style="list-style-type: none"> <li>1. Graduating highly qualified architects in the field of urban planning and design</li> <li>2. Building leadership qualities among its graduates by teaching them how to lead, problem-solving, teamwork, considerations of quality and professionalism in conservation work, and rehabilitation of heritage buildings.</li> <li>3. Instilling a spirit of imagination in graduates and a commitment to acquiring knowledge and serving the community.</li> <li>4. Contributing project ideas and conducting research for the benefit and development of the local community.</li> <li>5. Providing a good working environment for students and faculty members, with a focus on high academic, professional, practical and ethical standards so that they can set an example for society, especially while working on the maintenance and rehabilitation of heritage areas after graduation.</li> </ol> |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### Student Workload (SWL)

##### الحمل الدراسي للطالب

|                                                                         |    |                                                                     |     |
|-------------------------------------------------------------------------|----|---------------------------------------------------------------------|-----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطالب خلال الفصل       | 33 | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطالب أسبوعياً       | 2.2 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطالب خلال الفصل | 17 | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطالب أسبوعياً | 1.2 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطالب خلال الفصل              | 50 |                                                                     |     |

#### Module Evaluation

##### تقييم المادة الدراسية

| As                   |                 | Time/Number | Weight (Marks) | Week Due   | Relevant Learning Outcome |
|----------------------|-----------------|-------------|----------------|------------|---------------------------|
| Formative assessment | Quizzes         | .5          | 5% (10)        | 5, 10      | LO #1, 2, 10 and 11       |
|                      | Assignments     | 2           | /              | 2, 12      | LO # 3, 4, 6 and 7        |
|                      | Projects / Lab. | 1           | /              | Continuous |                           |
|                      | Report          | 1           | 5% (10)        | 13         | LO # 5, 8 and 10          |
| Summative assessment | Midterm Exam    | 2 hr        | 30% (30)       | 7          | LO # 1-7                  |
|                      | Final Exam      | 3hr         | 50% (50)       | 16         | All                       |

|                  |                  |  |  |
|------------------|------------------|--|--|
| Total assessment | 100% (100 Marks) |  |  |
|------------------|------------------|--|--|

Delivery Plan (Weekly Syllabus)  
المنهاج الأسبوعي النظري

| Week       | Material Covered                                                                                                                                                                                       |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Week 1     | Conservation of architectural heritage – basic definitions, conservation objectives, emergence and development of the concept                                                                          |
| Week 2     | Causes and sources of damage and loss in architectural and urban heritage                                                                                                                              |
| Week 3     | Dimensions of preserving architectural heritage: criteria for selecting buildings, efficiency of use and economic feasibility, social, planning, administrative, financial and legislative dimensions. |
| Week 4     | Preparatory steps for preservation work: inventory, documentation, registration, historical and physical studies                                                                                       |
| Week 5-6   | Treatments and behavioral standards: processing requirements, treatment selection, treatment levels, post-treatment protection                                                                         |
| Week 7     | Mid cores Exam                                                                                                                                                                                         |
| Week 8     | Rehabilitation and employment of historical buildings: rehabilitation criteria, contemporary job selection, criteria for evaluating efficiency of use                                                  |
| Week 9     | The role of rehabilitation in improving the urban environment - local and global examples                                                                                                              |
| Week 10    | The Arab Experience in Architectural Preservation: Its Applications and Problems                                                                                                                       |
| Week 11    | International experience in architectural preservation - a showcase of outstanding models                                                                                                              |
| Week 12    | The local experience in preservation: the history of the experience, the relevant authorities, the basic dimensions of the experience, the experiences of preserving the historical centers in Iraq    |
| Week 13    | Experiences of Preserving Historical Centers in Baghdad: The Experience of Al-Kadhimiya, Al-Rasheed Street                                                                                             |
| Week 14-15 | Preservation experiences of historical buildings in Baghdad                                                                                                                                            |

Delivery Plan (Weekly Lab. Syllabus)  
المنهاج الأسبوعي للمختبر

| Week | Material Covered |
|------|------------------|
|------|------------------|

Learning and Teaching Resources  
مصادر التعلم والتدريس

|                   | Text                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Available in the Library? |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Required Texts    | <p>1- مدونة جمال المدينة /مدونة بناء عراقية / وزارة الأعمار والأسكان –<br/>وزارة التخطيط –الجهاز المركزي للتقييس والسيطرة النوعية<br/>2- تاريخ فن العمارة العراقية في مختلف العصور – شريف يوسف<br/>3- Agents acting on a building and its parts (based on ISO/DP 6241- 1982<br/>4 – Classical styles in modern Architecture – Thomas L. Doremus<br/>المواثيق والمؤتمرات الدولية المتعلقة بالحفاظ على التراث الثقافي<br/>6- الأسلوب الأمثل للمحافظة على التراث المعماري في المدينة العراقية – د. حيدر عبد الرزاق كمونة - مركز التخطيط الحضري والأقليمي / جامعة بغداد<br/>وغيرها.... الخ</p> | Yes                       |
| Recommended Texts | charts and text lec                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | No                        |
| Websites          | مواقع متعددة حسب الأمثلة المضمنة في المحاضرات numbers of Websites                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                           |

Grading Scheme  
مخطط الدرجات

| Group         | Grade         | التقدير | Marks (%) | Definition              |
|---------------|---------------|---------|-----------|-------------------------|
| Success Group | A - Excellent | امتياز  | 90 - 100  | Outstanding Performance |

|                        |                  |                     |         |                                       |
|------------------------|------------------|---------------------|---------|---------------------------------------|
| (50 - 100)             | B - Very Good    | جيد جدا             | 80 - 89 | Above average with some errors        |
|                        | C - Good         | جيد                 | 70 - 79 | Sound work with notable errors        |
|                        | D - Satisfactory | متوسط               | 60 - 69 | Fair but with major shortcomings      |
|                        | E - Sufficient   | مقبول               | 50 - 59 | Work meets minimum criteria           |
| Fail Group<br>(0 - 49) | FX – Fail        | راسب (قيد المعالجة) | (45-49) | More work required but credit awarded |
|                        | F – Fail         | راسب                | (0-44)  | Considerable amount of work required  |
|                        |                  |                     |         |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

| Module Information<br>معلومات المادة الدراسية |                         |                              |                               |                                                                                                                                                                                                                                       |       |
|-----------------------------------------------|-------------------------|------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Module Title                                  | Architectural Design VI |                              |                               | Module Delivery                                                                                                                                                                                                                       |       |
| Module Type                                   | Core                    |                              |                               | <input checked="" type="checkbox"/> Theory<br>Lecture<br><input checked="" type="checkbox"/> Lab<br><input checked="" type="checkbox"/> Tutorial<br><input checked="" type="checkbox"/> Practical<br><input type="checkbox"/> Seminar |       |
| Module Code                                   | Arch3611                |                              |                               |                                                                                                                                                                                                                                       |       |
| ECTS Credits                                  | 12                      |                              |                               |                                                                                                                                                                                                                                       |       |
| SWL (hr/sem)                                  | 300                     |                              |                               |                                                                                                                                                                                                                                       |       |
| Module Level                                  |                         | UGxIII                       | Semester of Delivery          |                                                                                                                                                                                                                                       | 6     |
| Administering Department                      |                         | Type Dept. Code              | College                       | Type College Code                                                                                                                                                                                                                     |       |
| Module Leader                                 |                         |                              | e-mail                        |                                                                                                                                                                                                                                       |       |
| Module Leader's Acad. Title                   |                         | Assistant ProfessorProfessor | Module Leader's Qualification |                                                                                                                                                                                                                                       | Ph.D. |
| Module Tutor                                  | Name (if available)     |                              | e-mail                        | E-mail                                                                                                                                                                                                                                |       |
| Peer Reviewer Name                            |                         | Name                         | e-mail                        | E-mail                                                                                                                                                                                                                                |       |
| Scientific Committee Approval Date            |                         | 01/06/2023                   | Version Number                |                                                                                                                                                                                                                                       | 1.0   |

| Relation with other Modules<br>العلاقة مع المواد الدراسية الأخرى |      |          |  |
|------------------------------------------------------------------|------|----------|--|
| Prerequisite module                                              | None | Semester |  |
| Co-requisites module                                             | None | Semester |  |

| Module Aims, Learning Outcomes and Indicative Contents<br>أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                                                                               | in the second semester, the student moves to a multi-story project, through which he learns the principles of design for functional requirements of a typical, recurring nature, such as educational, administrative, residential, and commercial buildings, and to see some construction details directed for this purpose, as well as the possibility of applying what the student learned in the subject of health services and air conditioning. Lighting services given to him in the first and second semester. The study includes a set of rapid tests to identify the student's ability to make the right design decisions within a short period of time. |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية                                                          | The subject is the most important in the architecture department of all universities. Preparing the student to enter the labor market after graduation and take responsibility for designing and implementing construction projects are the main goals of this subject.                                                                                                                                                                                                                                                                                                                                                                                           |
| Indicative Contents                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

|                     |  |
|---------------------|--|
| المحتويات الإرشادية |  |
|---------------------|--|

| Learning and Teaching Strategies<br>استراتيجيات التعلم والتعليم |  |
|-----------------------------------------------------------------|--|
| Strategies                                                      |  |

| Student Workload (SWL)<br>الحمل الدراسي للطلاب                          |     |                                                                     |    |
|-------------------------------------------------------------------------|-----|---------------------------------------------------------------------|----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطلاب خلال الفصل       | 180 | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطلاب أسبوعياً       | 12 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطلاب خلال الفصل | 120 | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطلاب أسبوعياً | 8  |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطلاب خلال الفصل              | 300 |                                                                     |    |

| Module Evaluation<br>تقييم المادة الدراسية |                        |             |                 |            |                           |
|--------------------------------------------|------------------------|-------------|-----------------|------------|---------------------------|
| As                                         |                        | Time/Number | Weight (Marks)  | Week Due   | Relevant Learning Outcome |
| Formative assessment                       | Quizzes                |             |                 |            | LO #1, 2, 10 and 11       |
|                                            | Assignments            | 15          | 10% (20)        | 2, 12      | LO # 3, 4, 6 and 7        |
|                                            | Projects / Lab. Report | 11          | 10% (20)        | Continuous |                           |
|                                            | Midterm Exam           | 10          | 10% (10)        | 7          | LO # 5, 8 and 10          |
| Summative assessment                       | Final Exam             |             |                 | 16         | LO # 1-7                  |
|                                            |                        |             |                 |            | All                       |
| Total assessment                           |                        |             | 100% (50 Marks) |            |                           |

| Delivery Plan (Weekly Syllabus)<br>المنهاج الأسبوعي النظري                     |                                                             |
|--------------------------------------------------------------------------------|-------------------------------------------------------------|
| Week                                                                           | Material Covered                                            |
| Week 1-15                                                                      | Multi story Functional project continues to the course end. |
| Delivery Plan (Weekly Lab. Syllabus)<br>المنهاج الأسبوعي للمختبر/الكورس الثاني |                                                             |
| Week                                                                           | Material Covered                                            |
| Week 1-15                                                                      | Multi story Functional project works to the course end.     |

| Learning and Teaching Resources<br>مصادر التعلم والتدريس |      |                           |
|----------------------------------------------------------|------|---------------------------|
|                                                          | Text | Available in the Library? |
| Required Texts                                           |      | Yes                       |
| Recommended Texts                                        |      | No                        |
| Websites                                                 |      |                           |

| Grading Scheme<br>مخطط الدرجات |                  |          |           |                                  |
|--------------------------------|------------------|----------|-----------|----------------------------------|
| Group                          | Grade            | التقدير  | Marks (%) | Definition                       |
| Success Group<br>(50 - 100)    | A - Excellent    | امتياز   | 90 - 100  | Outstanding Performance          |
|                                | B - Very Good    | جيد جداً | 80 - 89   | Above average with some errors   |
|                                | C - Good         | جيد      | 70 - 79   | Sound work with notable errors   |
|                                | D - Satisfactory | متوسط    | 60 - 69   | Fair but with major shortcomings |

|                        |                |                     |         |                                       |
|------------------------|----------------|---------------------|---------|---------------------------------------|
|                        | E - Sufficient | مقبول               | 50 - 59 | Work meets minimum criteria           |
| Fail Group<br>(0 – 49) | FX – Fail      | راسب (قيد المعالجة) | (45-49) | More work required but credit awarded |
|                        | F – Fail       | راسب                | (0-44)  | Considerable amount of work required  |
|                        |                |                     |         |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

### MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

#### Module Information

معلومات المادة الدراسية

|                                    |                                                        |                      |                               |                                                                                                                                                                                                                                                                        |     |
|------------------------------------|--------------------------------------------------------|----------------------|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Module Title                       | Building information Modeling (BIM)<br>In urban design |                      |                               | Module Delivery                                                                                                                                                                                                                                                        |     |
| Module Type                        | Core                                                   |                      |                               | <div><input checked="" type="checkbox"/> Theory<br/>Lecture</div> <div><input checked="" type="checkbox"/> Lab</div> <div><input type="checkbox"/> Tutorial</div> <div><input checked="" type="checkbox"/> Practical</div> <div><input type="checkbox"/> Seminar</div> |     |
| Module Code                        | Arch3612                                               |                      |                               |                                                                                                                                                                                                                                                                        |     |
| ECTS Credits                       | 6                                                      |                      |                               |                                                                                                                                                                                                                                                                        |     |
| SWL (hr/sem)                       | 150                                                    |                      |                               |                                                                                                                                                                                                                                                                        |     |
| Module Level                       | UGIV                                                   | Semester of Delivery |                               |                                                                                                                                                                                                                                                                        |     |
| Administering Department           |                                                        | Type Dept. Code      | College                       | Type College Code                                                                                                                                                                                                                                                      |     |
| Module Leader                      | Assist.Lec Bashair Mahmood Shaker                      |                      | e-mail                        | eng306.bashair mahmood@uobabylon.edu.iq                                                                                                                                                                                                                                |     |
| Module Leader's Acad. Title        |                                                        | Lecturer Assistant   | Module Leader's Qualification |                                                                                                                                                                                                                                                                        | M.S |
| Module Tutor                       | Assist.Lec Bashair Mahmood Shaker                      |                      | e-mail                        | eng306.bashair mahmood@uobabylon.edu.iq                                                                                                                                                                                                                                |     |
| Peer Reviewer Name                 |                                                        | Name                 | e-mail                        | eng306.bashair mahmood@uobabylon.edu.iq                                                                                                                                                                                                                                |     |
| Scientific Committee Approval Date |                                                        | 01/06/2026           | Version Number                |                                                                                                                                                                                                                                                                        | 1.0 |

#### Relation with other Modules

العلاقة مع المواد الدراسية الأخرى

|                      |                      |          |   |
|----------------------|----------------------|----------|---|
| Prerequisite module  | Architecture Design  | Semester | 6 |
| Co-requisites module | Architecture Graphic | Semester | 6 |

#### Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                      | Qualifying the engineers in BIM procedures & practices so that they can handle working fully on AR Revit models in compliance with international ISO standards, coordinate with different engineering systems within the project & get wider overview of BIM requirements for engineering projects.                                                                                                                                     |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية | 1- Understanding the concept of BIM and its role in architectural projects<br>2- Distinguishing between traditional drawing and BIM<br>3- Creating a complete architectural model using Revit<br>4- Linking drawings (plans, sections, elevations, 3D)<br>5- Understanding coordination with other disciplines (structural, MEP)<br>Preparing a simple architectural project using the BIM methodology link with sustainable strategies |
| Indicative Contents                                       | The course provided students with a range of resources to help them complete exercises                                                                                                                                                                                                                                                                                                                                                  |

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| المحتويات الإرشادية | <p>and projects efficiently, including:</p> <p>A Revit user guide: This includes a simplified explanation of the program interface and the basic modeling tools used in the course.</p> <p>Practical exercise sheets: These include clear steps for each exercise within the studio, specifying the requirements and expected outcomes.</p> <p>Sample models: These provide simple, illustrative examples of BIM projects to demonstrate the concept without direct copying.</p> <p>File organization guidelines: These teach students how to name elements, organize views, and use the Project Browser correctly.</p> <p>Assessment rubrics: These explain the assessment criteria from the beginning of the course to ensure fairness and transparency.</p> <p>Architectural and conceptual guidelines: These emphasize that BIM is a tool to support architectural decision-making and not a replacement for design thinking.</p> |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Learning and Teaching Strategies<br>استراتيجيات التعلم والتعليم |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategies                                                      | <p>Learning by Doing: Students learn by implementing real-world models within Revit, learning through practice rather than solely through theoretical explanations.</p> <p>Problem-Based Learning: Students are presented with real-world design problems (adjusting thicknesses, changing levels, resolving element conflicts) and are required to solve them within a BIM environment.</p> <p>Gradual Cumulative Learning: Exercises are structured sequentially, with each exercise building upon the previous one, fostering a deep understanding of BIM as an integrated system.</p> <p>Collaborative Learning: Students are encouraged to share experiences in the studio and discuss design solutions, simulating a collaborative work environment in engineering offices.</p> <p>Critical Thinking-Based Learning: Students are required to analyze their design decisions and justify their choice of materials, thicknesses, and spatial solutions within the architectural model.</p> |

| Student Workload (SWL)<br>الحمل الدراسي للطالب                          |     |                                                                     |     |
|-------------------------------------------------------------------------|-----|---------------------------------------------------------------------|-----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطالب خلال الفصل       | 63  | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطالب أسبوعياً       | 4.2 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطالب خلال الفصل | 37  | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطالب أسبوعياً | 2.4 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطالب خلال الفصل              | 100 |                                                                     |     |

| Module Evaluation<br>تقييم المادة الدراسية |                        |             |                  |            |                           |
|--------------------------------------------|------------------------|-------------|------------------|------------|---------------------------|
| As                                         |                        | Time/Number | Weight (Marks)   | Week Due   | Relevant Learning Outcome |
| Formative assessment                       | Quizzes                | 1           | 5% (5)           | 5, 10      | LO #1, 2, 10 and 11       |
|                                            | Assignments            |             |                  |            |                           |
|                                            | Projects / Lab. Report | 5           | 30% (30)         | Continuous | LO # 5, 8 and 10          |
|                                            |                        |             |                  |            |                           |
| Summative assessment                       | Midterm Exam           | 2 hr        | 15% (15)         | 7          | LO # 1-7                  |
|                                            | Final Exam             | 2hr         | 50% (50)         | 16         | All                       |
| Total assessment                           |                        |             | 100% (100 Marks) |            |                           |

| Delivery Plan (Weekly Syllabus)<br>المناهج الأسبوعي النظري |                                                          |
|------------------------------------------------------------|----------------------------------------------------------|
| Week                                                       | Material Covered                                         |
| Week 1                                                     | Explanation of Bim methodologies, procedures & standards |

|         |                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| week 2  | Understanding the difference between Cad& Bim And Cycle of architecture project inter lab                                                                                                                                                                                                                                                                                                                              |
| week 3  | Bim Programs ... introduction to Revit and began to draw plan inside lab                                                                                                                                                                                                                                                                                                                                               |
| week 4  | Architectural Project Preparation<br>Units,Levels,Grids ...File Organization                                                                                                                                                                                                                                                                                                                                           |
| week 5  | Walls ,Types of Walls<br>Thicknesses<br>Materials<br>Doors and Windows<br>Floors<br>Slabs<br>Construction Connections<br>Stairs and Ramps<br>Stair by Component<br>Linking Levels<br>Inter block interior And Exterior and take a project inside lab                                                                                                                                                                   |
| week6   | <b>Spolia</b> technics and what the benefit with bim project in sustainable urban design                                                                                                                                                                                                                                                                                                                               |
| week 7  | A small-scale warm-up project exploring the possibility of creating and documenting an element within the urban landscape and how to use it for the correct function.                                                                                                                                                                                                                                                  |
| week 8  | Quiz & assignment                                                                                                                                                                                                                                                                                                                                                                                                      |
| week 9  | Materials and Architectural Rendering<br>Materials<br>Texture<br>Rendering Fundamentals ,Schedules and Quantities.                                                                                                                                                                                                                                                                                                     |
| week 10 | How to understand the architect's role within BIM, while also understanding the tasks of all engineers and specialists, in order to create an integrated system for project management.                                                                                                                                                                                                                                |
| week 11 | Mid term                                                                                                                                                                                                                                                                                                                                                                                                               |
| week 12 | Looking at Iraqi projects where BIM technology has been implemented, comparing them, and also describing the advantages and disadvantages of BIM.                                                                                                                                                                                                                                                                      |
| Week 13 | Link between program and bim programs                                                                                                                                                                                                                                                                                                                                                                                  |
| week 14 | Applying BIM technology through individual projects for each group of students, drawing on their creative imagination to develop a small project and connect it to the urban landscape, preparing all the necessary drawings and data, and presenting a model. This will foster collaboration among the individuals to produce a high-quality project that can compete in the job market and is ultimately applicable. |
| week 15 | Final exam                                                                                                                                                                                                                                                                                                                                                                                                             |

### Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

| Week    | Material Covered |
|---------|------------------|
| Week 1  |                  |
| Week 2  |                  |
| Week 3  |                  |
| Week 4  |                  |
| Week 5  |                  |
| Week 6  |                  |
| Week 7  |                  |
| Week 8  |                  |
| Week 9  |                  |
| Week 10 |                  |
| Week 11 |                  |
| Week 12 |                  |
| Week 13 |                  |
| Week 14 |                  |

### Learning and Teaching Resources

مصادر التعلم والتدريس

|                   | Text                                                                                                                                        | Available in the Library? |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Required Texts    | Bim in internet site<br>-paper of architecture BIM<br><b>Integrating Building Information Modeling (BIM)</b>                                | Yes                       |
| Recommended Texts | Bim<br>Mep                                                                                                                                  | No                        |
| Websites          | <a href="https://engbim.com/what-is-the-difference-between-cad-and-bim/">https://engbim.com/what-is-the-difference-between-cad-and-bim/</a> |                           |

Grading Scheme

مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A - Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                             | C - Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                             | E - Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 - 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |
|                             |                  |                     |           |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.



**Ministry of Higher Education  
and Scientific Research  
University of Babylon  
College of Engineering  
Department of Architectural  
Engineering**



# **Academic Program and Course Description**

**for the B.Sc. in Architectural Engineering  
Program**

2025

## **Introduction:**

The Bachelor of Science program in Architectural Engineering is one of the core academic programs at the College of Engineering at the University of Babylon. The program aims to prepare graduates capable of analyzing architectural and urban challenges and developing innovative, sustainable design solutions. It achieves this by integrating engineering and technical knowledge with artistic, environmental, and cultural understanding, in line with modern scientific developments and national development requirements.

The program extends for five years according to the semester-based credit hour system. Students graduate after completing ten academic semesters, in addition to fulfilling the requirements of summer training and a comprehensive final graduation project (thesis), which enhances their practical skills and helps them gain a deeper understanding of real professional practice.

The program strives diligently to keep pace with developments in the field of architectural and urban design through the continuous development of curricula in line with labor market requirements and global standards in architectural education. Furthermore, the program works to enhance students' capabilities in various fields, including architectural design, building construction, urban design and planning, the history and theories of architecture, sustainability and climate-appropriate architecture, and digital modeling techniques.

It also seeks to promote professional and ethical values, encourage critical thinking and creativity, and serve the community. Graduates of the program can work in various fields within both the public and private sectors, such as ministries concerned with housing, reconstruction, and municipalities, regulatory authorities, engineering offices and consultancies, contracting companies, heritage preservation, and sustainable urban development projects".

## 1. Program Vision

The Department of Architectural Engineering at the University of Babylon seeks academic leadership by preparing globally qualified architects skilled in design, planning, and modern technologies such as BIM. It is also committed to serving the community and achieving sustainable development through innovative, eco-friendly architectural and urban solution.

## 2. Program Mission

The Bachelor of Architectural Engineering program combines engineering principles with aesthetics to qualify students in the fields of design, building materials, and environmental sustainability. It also focuses on practical application through laboratories and field projects, enabling graduates to transform their creative ideas into real, safe structures.

## 3. Program Objectives

Our **Architectural Engineering program** aims to provide a comprehensive curriculum that equips students with a solid foundation in both the technical and creative aspects of the field. Through a combination of theoretical courses and practical projects, the program seeks to:

1. **Equip** students with the skills and knowledge necessary to excel in architectural and urban design.
2. **Develop** a deep understanding of the principles of structural analysis and design.
3. **Foster** creativity and innovation in architectural design.

## 4. Programmatic Accreditation

The accredited program is the Accreditation Board for Engineering and Technology (ABET), but it has not yet obtained programmatic accreditation.

## 5. Other external factors

- Field visits
- Summer training
- Seminars and workshops
- Joint project reviews with other architectural departments
- Participation in Arab and international conferences

## 6. Program Structure

| Program Structure                | Number of Courses                         | Study Unit                                 | Percentage | * Notes |
|----------------------------------|-------------------------------------------|--------------------------------------------|------------|---------|
| <b>Organization Requirements</b> | Bologna system=8<br>The semester system=0 | Bologna system=72<br>The semester system=0 |            |         |
| <b>College requirements</b>      | 0                                         | 0                                          | %0         |         |
| <b>Department</b>                | Bologna system=56                         | Bologna system=228                         | %100       |         |

| Requirements    | The semester system=0 | The semester system=0 |    |  |
|-----------------|-----------------------|-----------------------|----|--|
| Summer training | 1                     | 0                     | %0 |  |
| Other           | 0                     | 0                     | %0 |  |

\*The notes may include whether the course is compulsory or elective.

| 7. Program Description      |             |                                                                |              |          |           |
|-----------------------------|-------------|----------------------------------------------------------------|--------------|----------|-----------|
| Year / Level                | Course Code | Course Name                                                    | Credit Hours |          |           |
|                             |             |                                                                | Theoretical  | Tutorial | Practical |
| First-year First-semester   | Arch1111    | Architectural Design I & Architectural Graphics I              | 2            | 10       | 0         |
|                             | Arch1114    | Freehand Drawing I                                             | 1            | 6        | 0         |
|                             | Arch1102    | Principles of Art and Architecture I                           | 2            | 0        | 0         |
|                             | Arch1103    | Mathematics I                                                  | 2            | 0        | 0         |
|                             | Arch1105    | Computer I                                                     | 1            | 2        | 0         |
|                             | UOBAB1102   | Arabic language                                                | 2            | 0        | 0         |
|                             | UOBAB1104   | Human Rights and democracy                                     | 2            | 0        | 0         |
| First-year Second-semester  | Arch1211    | Principles of Art and Architecture II                          | 2            | 0        | 0         |
|                             | Arch1214    | Principles of computer graphics                                | 2            | 4        | 0         |
|                             | Arch1213    | Mathematics II                                                 | 2            | 0        | 0         |
|                             | UOBABb1101  | English language I                                             | 2            | 0        | 0         |
|                             | Arch1212    | Building Construction I                                        | 2            | 4        | 0         |
|                             | Arch1216    | Architectural Design II & Architectural Graphics II            | 2            | 10       | 0         |
| Second-year First-semester  | Arch2316    | Building Construction II                                       | 2            | 2        | 0         |
|                             | Arch2305    | History of Architecture I                                      | 4            | 0        | 0         |
|                             | Arch2314    | Computers II                                                   | 1            | 2        | 0         |
|                             | UOBAB2301   | Atrocities of the Ba'ath Regime                                | 2            | 0        | 0         |
|                             | Arch2311    | Architectural Design III                                       | 1            | 8        | 0         |
|                             | Arch2312    | Architectural Graphics III                                     | 1            | 2        | 0         |
|                             | Arch2313    | Freehand Drawing II                                            | 1            | 4        | 0         |
| Second year Second-semester | Arch2414    | Building Construction III                                      | 2            | 2        | 0         |
|                             | Arch2411    | Architectural Design IV                                        | 1            | 8        | 0         |
|                             | Arch2412    | Architectural Graphics IV                                      | 1            | 2        | 0         |
|                             | Arch2413    | Freehand Drawing III                                           | 1            | 3        | 0         |
|                             | Arch2415    | principles of computer graphics II                             | 1            | 3        | 0         |
|                             | UOBAB2302   | English language II                                            | 2            | 0        | 0         |
|                             | UOBAB2001   | Arabic language II                                             | 2            | 0        | 0         |
| Third-year First-semester   | Arch2406    | Logic and design Methodology                                   | 2            | 0        | 0         |
|                             | Arch3511    | Architectural Design V                                         | 2            | 10       | 0         |
|                             | Arch3512    | Building Construction IV                                       | 2            | 2        | 0         |
|                             | Arch3513    | Structure I                                                    | 2            | 2        | 0         |
|                             | Arch3514    | History of Architecture II                                     | 4            | 0        | 0         |
|                             | Arch3515    | Principles of planning                                         | 4            | 0        | 0         |
| Third-year Second-semester  | Arch3516    | Building Sanitary Services                                     | 2            | 0        | 0         |
|                             | Arch3611    | Architectural Design VI                                        | 2            | 10       | 0         |
|                             | Arch3612    | Management,Modelling and Application in the Built Environments | 2            | 4        | 0         |
|                             | Arch3613    | Structure II                                                   | 4            | 0        | 0         |

|                                    |           |                                       |   |    |   |
|------------------------------------|-----------|---------------------------------------|---|----|---|
|                                    | Arch3614  | Methods of Conservation               | 4 | 0  | 0 |
|                                    | Arch3615  | Building Lighting Services            | 2 | 0  | 0 |
|                                    | Arch3616  | Building Air-Conditioning Services    | 2 | 0  | 0 |
| <b>Fourth year First semester</b>  | Arch4711  | Architectural Design VII              | 2 | 10 | 0 |
|                                    | Arch4702  | Interior Desing                       | 1 | 3  | 0 |
|                                    | Arch4703  | Advanced Building Technologies        | 4 | 0  | 0 |
|                                    | Arch4704  | Theory of Architecture                | 4 | 0  | 0 |
|                                    | Arch4705  | Housing                               | 2 | 0  | 0 |
|                                    | Arch4706  | Structure III                         | 4 | 0  | 0 |
|                                    | Arch4811  | Architectural Design VIII             | 2 | 10 | 0 |
| <b>Fourth year Second semester</b> | Arch4802  | Landscape Design                      | 1 | 3  | 0 |
|                                    | Arch4803  | Suveying                              | 1 | 3  | 0 |
|                                    | Arch4804  | Architecture and Climate Technologies | 1 | 3  | 0 |
|                                    | Arch4805  | Theory of Urban Design                | 2 | 0  | 0 |
|                                    | Arch4806  | Acoustics of Architecture             | 2 | 0  | 0 |
| <b>Fifth year First semester</b>   | Arch5911  | Architectural Design IX               | 2 | 10 | 0 |
|                                    | Arch5912  | Thesis I                              | 4 | 6  | 0 |
|                                    | Arch5903  | Theories of Architecture Design       | 2 | 2  | 0 |
|                                    | Arch5904  | Contemporary Arabic Architecture      | 4 | 0  | 0 |
|                                    | Arch5905  | Islamic Architecture                  | 4 | 0  | 0 |
|                                    | Arch5906  | Philosophy of Architecture            | 2 | 0  | 0 |
| <b>Fifth year Second semester</b>  | Arch51011 | Thesis II                             | 2 | 20 | 0 |
|                                    | Arch51002 | Estimation and Specification          | 2 | 0  | 0 |
|                                    | Arch51003 | Profession Practice                   | 2 | 0  | 0 |
|                                    | Arch51004 | Contemporary Iraqi architecture       | 2 | 0  | 0 |
|                                    | Arch51005 | Architectural criticism theories      | 2 | 0  | 0 |

## 8. Expected learning outcomes of the program

### Knowledge

**A1:** Understanding architectural theories and concepts, and becoming familiar with the fundamental principles of composition, art, and mass, as well as the elements of two- and three-dimensional design.

**A2:** Comprehending the basic geometric and mathematical rules and theories that govern proportions and projection forms in architectural drawing.

**A3:** Distinguishing between various visual expression tools and techniques, ranging from traditional manual methods to basic digital applications via computer.

**A4:** Explaining the core concepts of cultural and linguistic identity, while demonstrating awareness of environmental, social, and regulatory considerations in both local and international architecture.

### Skills

**B1:** Applying architectural geometric projection skills (plans, elevations, sections) with high precision using engineering tools.

**B2:** Translating ideas and visual observations into freehand drawings and manual sketches that express light, shadow, perspective, and proportions with acceptable accuracy.

**B3:** Utilizing basic mathematical and programming skills to solve simple design problems and operate operating systems efficiently.

**B4:** Analyzing simple artistic and architectural compositions to deconstruct them into their primary elements (point, line, shape, mass).

### Ethics

**C1:** Adhering to the ethics of the educational environment and the architectural studio, including academic integrity and commitment to time management and project deadlines.

- C2:** Accepting visual and academic critique during project design juries, while demonstrating flexibility in developing and refining design concepts.
- C3:** Promoting social and environmental values, and respecting diversity and human rights during the conceptual design of spaces that serve the community.
- C4:** Committing to professional ethics, while developing self-learning skills and collaborating effectively in teamwork during artistic exercises and preliminary analyses.

## 9. Teaching and Learning Strategies

Teaching and learning strategies in the field of architectural engineering vary to include methods aimed at developing students' design, critical thinking, and creative skills. The strategies implemented in the Department of Architectural Engineering at the University of Babylon are as follows:

- **Project-Based and Problem-Based Learning (PBL):** Applying theoretical concepts to practical design projects and real-world architectural challenges, which enhances students' analysis, planning, and creative decision-making skills.
- **Collaborative and Team-Based Learning:** Activating group work to exchange ideas and experiences, which fosters communication, leadership, and collaboration skills, leading to a deeper understanding of architectural concepts through discussion.
- **Technology and Digital Modeling Integration:** Integrating 3D design software, virtual reality (VR), and digital tools to create and present architectural models, while providing e-resources to enhance digital self-learning.
- **Experiential and Field-Based Learning:** Linking academia to reality through field visits to sites and historical buildings, participation in hands-on workshops, and practical training (internships) in engineering firms.
- **Inquiry-Based Learning and Brainstorming Innovation:** Stimulating architectural curiosity by posing questions and conducting independent research, while generating innovative ideas to solve design problems and develop critical thinking.

## 10. Evaluation Methods

1. Examinations: Conducting daily, monthly, and semester tests.
2. Evaluation of Assignments: Reviewing regular homework and class assignments carried out by students during the semester.
3. Evaluation of Presentations and Reports: Assessing students' presentations, academic writing, and research report preparation.
4. Evaluation of Projects: Assessing practical projects, including architectural design, architectural visualization, and engineering drawing.
5. Assessment of Attendance and Commitment: Evaluating students' attendance in lectures and commitment to their academic duties.
6. Evaluation of Participation and Teamwork: Assessing engagement in class discussions, workshops, extracurricular activities, and teamwork.
7. Evaluation of Fieldwork: Assessing student outcomes from summer training and scientific visits.

## 11. The teaching staff

### Faculty members

| Academic rank | Specialization | Special requirements | Teaching staff |
|---------------|----------------|----------------------|----------------|
|---------------|----------------|----------------------|----------------|

|                                             |                          |                                      | /skills (if applicable) |  |       |          |
|---------------------------------------------|--------------------------|--------------------------------------|-------------------------|--|-------|----------|
|                                             | General                  | Special                              |                         |  | Staff | Lecturer |
| Prof. Dr. Hamza Salman Al-Mamouri           | Architecture Engineering | Urban design\ Islamic Architecture   |                         |  | Staff |          |
| Prof. Dr. Hassan Abed Ali Al-Kasbi          | Architecture Engineering | Urban design\ theory of architecture |                         |  | Staff |          |
| Prof. Dr. Moayad Manger Obaid               | English language         | Methods of teaching English language |                         |  | Staff |          |
| Prof. Dr. Mohammed Salah Nasr               | Civil Engineering        | Building materials                   |                         |  | Staff |          |
| Prof. Dr. Rasha Malik Mousa                 | Architecture Engineering | Urban planning                       |                         |  | Staff |          |
| Prof. Dr. Amira Jalil Ahmed                 | Architecture Engineering | Urban design                         |                         |  | Staff |          |
| Asst. Prof. Dr. Ali Omran Lateef            | Architecture Engineering | Sustainable urban design             |                         |  | Staff |          |
| Asst. Prof. Dr. Evan Madi Hamza             | Computer Science         | Image recognition                    |                         |  | Staff |          |
| Asst. Prof. Dr. Baydaa Abdul Hussein Bedewy | Surveying Engineering    | Urban and regional planning          |                         |  | Staff |          |
| Asst. Prof. Alaa Hadi Obaid                 | Architecture Engineering | Technology of Architecture           |                         |  | Staff |          |
| Asst. Prof. Dr. Hussam Jabbar Abbas         | Architecture Engineering | Architectural design                 |                         |  | Staff |          |
| Asst. Prof. Dr. Ola Abed Ali                | Architecture Engineering | Urban design                         |                         |  | Staff |          |
| Asst. Prof. Dr. Mahmoud Amer Mahmoud        | Architecture Engineering | Architectural design                 |                         |  | Staff |          |
| Lecturer Dr. Harith Amer Abdul-Wahid        | Civil Engineering        | Structure design                     |                         |  | Staff |          |
| Lecturer Dr. Zaidoun Najah Mahdi            | Architecture Engineering | Urban design                         |                         |  | Staff |          |
| Asst. Prof. Maha Fouad Mohammed             | Plastic Arts             | Drawing                              |                         |  | Staff |          |
| Asst. Lecturer Siraj Jabbar Kadhim          | Architecture Engineering | Architectural design                 |                         |  | Staff |          |
| Asst. Lecturer Rawaa Abed Manaf             | Architecture Engineering | Architectural design                 |                         |  | Staff |          |
| Asst. Lecturer Sara Mohammed Jamil          | Architecture Engineering | Architectural design                 |                         |  | Staff |          |
| Asst. Lecturer Faten Hashem Karim           | Architecture Engineering | Architectural design                 |                         |  | Staff |          |

|                                                 |                             |                                                        |  |  |       |  |
|-------------------------------------------------|-----------------------------|--------------------------------------------------------|--|--|-------|--|
| Asst. Lecturer<br>Zainab Riyadh<br>Zainal       | Urban<br>planning           | Urban planning                                         |  |  | Staff |  |
| Asst. Lecturer<br>Mustafa Ali Abdul-<br>Hadi    | Electrical<br>Engineering   | Electronics and<br>Communications                      |  |  | Staff |  |
| Asst. Lecturer<br>Bashair Mahmoud<br>Shaker     | Architecture<br>Engineering | Architectural design                                   |  |  | Staff |  |
| Asst. Lecturer Elaf<br>Saleem Abbas             | Architecture<br>Engineering | Architectural design                                   |  |  | Staff |  |
| Asst. Lecturer<br>Salam Sameer<br>Hadi          | Architecture<br>Engineering |                                                        |  |  | Staff |  |
| Asst. Lecturer<br>Zahraa Alaa Abed<br>Al-Hassan | Architecture<br>Engineering | Architectural<br>design\ Technology<br>of Architecture |  |  | Staff |  |
| Asst. Lecturer<br>Meryem Haythem<br>Ali         | Architecture<br>Engineering | Urban design                                           |  |  | Staff |  |
| Asst. Lecturer<br>Abrar Abed Al-<br>Rida        | Architecture<br>Engineering | Architectural design                                   |  |  | Staff |  |

## 12. Professional development

### New Faculty Orientation

- 1- Introducing the department's vision, mission, and goals, as well as its organizational structure and administrative regulations, while helping them build professional relationships with colleagues and supervisors.
- 2- Training them on effective teaching methodologies, presentation techniques, and student communication, while providing the necessary tools and resources for curriculum design, student assessment, and the integration of modern educational technologies.
- 3- Guiding them on how to conduct scientific research and write research proposals.
- 4- Assigning experienced academic mentors to assist new faculty members in overcoming the challenges they may face.
- 5- Providing psychological and professional support to ensure a healthy work-life balance, and establishing a networking platform among new faculty members to exchange expertise and ideas.
- 6- Encouraging them to participate in workshops, conferences, and training programs to continuously develop their skills and knowledge.

### Faculty Professional Development

- 1- Urging faculty members to participate in local and international conferences, and to conduct workshops, scientific lectures, and seminars.
- 2- Publishing scientific research in reputable international repositories (such as Scopus/Clarivate) to enhance their academic standing and improve their professional capabilities.
- 3- Encouraging faculty members to engage in continuous learning, develop self-skills, and leverage various training and professional development opportunities.
- 4- Emphasizing the importance of adhering to professional ethics and academic standards.
- 5- Improving teaching skills by developing modern and effective methodologies, utilizing innovative educational technologies, enhancing communication and interaction with students, as well as refining curriculum design and student assessment method..

### **13. Acceptance criterion**

Student admission to the Department of Architectural Engineering is subject to the regulations and conditions of the Ministry of Higher Education and Scientific Research. Admission is competitive, determined by the student's high school percentage (the sixth preparatory stage average) to differentiate among applicants for college enrollment, through the following channels:

- Central Admission (Daytime Study)
- Parallel Admission System

### **14. The most important sources of information about the program**

- College of Engineering Guide, University of Babylon
- College of Engineering Website (University of Babylon) in both English and Arabic
- University of Babylon official website
- Official website of the Iraqi Ministry of Higher Education and Scientific Research

### **15. Program Development Plan**

- 1- Forming departmental committees dedicated to monitoring the academic program, conducting comprehensive curriculum reviews, incorporating latest updates, and modernizing courses to align with labor market demands.
- 2- Developing faculty skills through continuous training, encouraging scientific research, promoting knowledge exchange, and utilizing the latest available educational tools and modern digital teaching methods.
- 3- Enhancing the educational environment by providing laboratories and workshops equipped with the latest technologies and tools required for architectural design, establishing a specialized architectural library, and fostering a creative atmosphere.
- 4- Strengthening collaboration with the labor market and community by building partnerships with engineering firms and construction companies, organizing workshops and guest lectures delivered by architectural experts, and participating in community-based projects.
- 5- Advancing students' skills by fostering critical and creative thinking, as well as enhancing communication, teamwork, and project management capabilities.
- 6- Conducting student surveys at the end of each semester to gather feedback on the academic program.
- 7- Conducting faculty surveys at the end of each semester to determine the best approaches for developing courses and improving teaching methodologies.

| 16. Program skills outline    |             |                                                     |                   |                                    |    |    |    |        |    |    |    |        |    |    |    |
|-------------------------------|-------------|-----------------------------------------------------|-------------------|------------------------------------|----|----|----|--------|----|----|----|--------|----|----|----|
|                               |             |                                                     |                   | Required program Learning outcomes |    |    |    |        |    |    |    |        |    |    |    |
| Year/ Level                   | Course Code | Course Name                                         | Basic or optional | Knowledge                          |    |    |    | Skills |    |    |    | Ethics |    |    |    |
|                               |             |                                                     |                   | A1                                 | A2 | A3 | A4 | B1     | B2 | B3 | B4 | C1     | C2 | C3 | C4 |
| First-year<br>First-semester  | Arch1111    | Architectural Design I & Architectural Graphics I   | Basic             | ✓                                  | ✓  |    |    | ✓      | ✓  |    |    | ✓      | ✓  |    |    |
|                               | Arch1114    | Freehand Drawing I                                  | Basic             |                                    |    | ✓  |    |        | ✓  |    |    | ✓      |    |    | ✓  |
|                               | Arch1102    | Principles of Art and Architecture I                | Basic             | ✓                                  |    |    |    |        |    |    | ✓  |        | ✓  |    |    |
|                               | Arch1103    | Mathematics I                                       | Basic             |                                    | ✓  |    |    |        |    | ✓  |    | ✓      |    |    |    |
|                               | Arch1105    | Computer I                                          | Basic             |                                    |    | ✓  |    |        |    | ✓  |    |        |    |    | ✓  |
|                               | UOBAB1102   | Arabic language                                     | Basic             | ✓                                  |    |    |    |        | ✓  |    |    |        |    |    | ✓  |
|                               | UOBAB1104   | Human Rights and democracy                          | Basic             | ✓                                  |    |    |    |        | ✓  |    |    |        |    | ✓  |    |
| First-year<br>Second-semester | Arch1211    | Principles of Art and Architecture II               | Basic             | ✓                                  |    |    |    |        |    |    | ✓  |        | ✓  |    |    |
|                               | Arch1214    | Principles of computer graphics                     | Basic             |                                    |    | ✓  |    |        |    | ✓  |    | ✓      |    |    | ✓  |
|                               | Arch1213    | Mathematics II                                      | Basic             |                                    | ✓  |    |    |        | ✓  |    |    | ✓      |    |    |    |
|                               | UOBABb1101  | English language I                                  | Basic             |                                    |    |    | ✓  |        | ✓  |    |    |        |    |    | ✓  |
|                               | Arch1212    | Building Construction I                             | Basic             | ✓                                  | ✓  |    |    | ✓      |    |    |    | ✓      |    |    |    |
|                               | Arch1216    | Architectural Design II & Architectural Graphics II | Basic             | ✓                                  | ✓  |    |    | ✓      | ✓  |    |    | ✓      | ✓  |    |    |
| Second-year<br>First-semester | Arch2316    | Building Construction II                            | Basic             | ✓                                  | ✓  |    |    | ✓      |    |    |    | ✓      |    |    |    |
|                               | Arch2305    | History of Architecture I                           | Basic             | ✓                                  |    |    | ✓  |        |    |    | ✓  |        |    | ✓  |    |
|                               | Arch2314    | Computers II                                        | Basic             |                                    |    | ✓  |    |        |    | ✓  |    |        |    |    | ✓  |
|                               | UOBAB2301   | Atrocities of the Ba'ath Regime                     | Basic             |                                    |    |    | ✓  |        |    |    |    |        |    | ✓  |    |
|                               | Arch2311    | Architectural Design III                            | Basic             | ✓                                  |    |    | ✓  | ✓      | ✓  |    | ✓  | ✓      | ✓  |    | ✓  |
|                               | Arch2312    | Architectural Graphics III                          | Basic             |                                    | ✓  | ✓  |    | ✓      |    |    |    | ✓      |    |    |    |

|                                             |           |                                                                |       |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------------------------|-----------|----------------------------------------------------------------|-------|---|---|---|---|---|---|---|---|---|---|---|---|
|                                             | Arch2313  | Freehand Drawing II                                            | Basic |   |   | ✓ |   |   | ✓ |   |   | ✓ |   |   |   |
| <b>Second year<br/>Second-<br/>semester</b> | Arch2414  | Building Construction III                                      | Basic | ✓ | ✓ |   |   | ✓ |   |   |   | ✓ |   |   |   |
|                                             | Arch2411  | Architectural Design IV                                        | Basic | ✓ |   |   | ✓ | ✓ | ✓ |   | ✓ | ✓ | ✓ |   | ✓ |
|                                             | Arch2412  | Architectural Graphics IV                                      | Basic |   | ✓ | ✓ |   | ✓ |   |   |   | ✓ |   |   |   |
|                                             | Arch2413  | Freehand Drawing III                                           | Basic |   |   | ✓ |   |   | ✓ |   |   | ✓ |   |   |   |
|                                             | Arch2415  | principles of computer graphics II                             | Basic |   |   | ✓ |   |   |   | ✓ |   |   |   |   | ✓ |
|                                             | UOBAB2302 | English language II                                            | Basic |   |   |   | ✓ |   | ✓ |   |   |   |   |   | ✓ |
|                                             | UOBAB2001 | Arabic language II                                             | Basic |   |   |   | ✓ |   | ✓ |   |   |   |   |   | ✓ |
|                                             | Arch2406  | Logic and design Methodology                                   | Basic | ✓ |   |   |   |   |   |   | ✓ |   | ✓ |   | ✓ |
| <b>Third-year<br/>First-semester</b>        | Arch3511  | Architectural Design V                                         | Basic | ✓ |   |   | ✓ | ✓ | ✓ |   |   |   |   |   |   |
|                                             | Arch3512  | Building Construction IV                                       | Basic | ✓ | ✓ |   |   | ✓ |   |   |   | ✓ |   |   |   |
|                                             | Arch3513  | Structure I                                                    | Basic |   | ✓ |   |   |   |   | ✓ |   | ✓ |   |   |   |
|                                             | Arch3514  | History of Architecture II                                     | Basic | ✓ |   |   | ✓ |   | ✓ |   |   |   |   | ✓ |   |
|                                             | Arch3515  | Principles of planning                                         | Basic | ✓ |   |   | ✓ |   |   |   | ✓ |   |   | ✓ |   |
|                                             | Arch3516  | Building Sanitary Services                                     | Basic | ✓ |   |   | ✓ | ✓ |   |   |   | ✓ |   |   |   |
| <b>Third-year<br/>Second-<br/>semester</b>  | Arch3611  | Architectural Design VI                                        | Basic | ✓ |   |   | ✓ | ✓ | ✓ |   | ✓ | ✓ | ✓ | ✓ | ✓ |
|                                             | Arch3612  | Management,Modelling and Application in the Built Environments | Basic |   |   | ✓ | ✓ |   |   | ✓ |   |   |   |   | ✓ |
|                                             | Arch3613  | Structure II                                                   | Basic |   | ✓ |   |   |   |   | ✓ |   | ✓ |   |   |   |
|                                             | Arch3614  | Methods of Conservation                                        | Basic | ✓ |   |   | ✓ |   |   | ✓ |   |   |   |   | ✓ |
|                                             | Arch3615  | Building Lighting Services                                     | Basic |   | ✓ |   | ✓ | ✓ |   |   |   | ✓ |   |   |   |
|                                             | Arch3616  | Building Air-Conditioning Services                             | Basic |   | ✓ |   | ✓ |   |   |   |   |   |   |   |   |
| <b>Fourth year<br/>First semester</b>       | Arch4711  | Architectural Design VII                                       | Basic | ✓ |   |   | ✓ | ✓ | ✓ |   | ✓ | ✓ | ✓ | ✓ | ✓ |
|                                             | Arch4702  | Interior Desing                                                | Basic | ✓ |   |   |   |   | ✓ |   | ✓ | ✓ | ✓ |   |   |
|                                             | Arch4703  | Advanced Building Technologies                                 | Basic | ✓ | ✓ |   |   | ✓ |   |   | ✓ |   |   |   |   |
|                                             | Arch4704  | Theory of Architecture                                         | Basic | ✓ |   |   |   |   |   |   | ✓ |   | ✓ |   |   |
|                                             | Arch4705  | Housing                                                        | Basic | ✓ |   |   | ✓ |   |   |   | ✓ |   |   | ✓ |   |

|                                        |           |                                       |       |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------------------|-----------|---------------------------------------|-------|---|---|---|---|---|---|---|---|---|---|---|---|
|                                        | Arch4706  | Structure III                         | Basic |   | ✓ |   |   |   |   | ✓ |   | ✓ |   |   |   |
| <b>Fourth year<br/>Second semester</b> | Arch4811  | Architectural Design VIII             | Basic | ✓ |   |   | ✓ | ✓ | ✓ |   | ✓ | ✓ | ✓ | ✓ | ✓ |
|                                        | Arch4802  | Landscape Design                      | Basic | ✓ |   |   | ✓ |   | ✓ |   | ✓ | ✓ |   | ✓ |   |
|                                        | Arch4803  | Suveying                              | Basic |   | ✓ |   |   | ✓ |   | ✓ |   | ✓ |   |   |   |
|                                        | Arch4804  | Architecture and Climate Technologies | Basic |   | ✓ |   | ✓ |   |   | ✓ |   |   |   | ✓ |   |
|                                        | Arch4805  | Theory of Urban Design                | Basic | ✓ |   |   | ✓ |   |   |   | ✓ |   |   | ✓ |   |
|                                        | Arch4806  | Acoustics of Architecture             | Basic |   | ✓ |   | ✓ |   |   | ✓ |   | ✓ |   |   |   |
| <b>Fifth year<br/>First semester</b>   | Arch5911  | Architectural Design IX               | Basic | ✓ |   |   | ✓ | ✓ |   |   | ✓ | ✓ | ✓ | ✓ | ✓ |
|                                        | Arch5912  | Thesis I                              | Basic | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |   | ✓ | ✓ |
|                                        | Arch5903  | Theories of Architecture Design       | Basic | ✓ |   |   |   |   |   |   | ✓ |   | ✓ |   |   |
|                                        | Arch5904  | Contemporary Arabic Architecture      | Basic | ✓ |   |   | ✓ |   |   |   | ✓ |   |   | ✓ |   |
|                                        | Arch5905  | Islamic Architecture                  | Basic | ✓ |   |   | ✓ |   |   |   | ✓ |   |   | ✓ |   |
|                                        | Arch5906  | Philosophy of Architecture            | Basic | ✓ |   |   |   |   |   |   | ✓ |   | ✓ |   |   |
| <b>Fifth year<br/>Second semester</b>  | Arch51011 | Thesis II                             | Basic | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
|                                        | Arch51002 | Estimation and Specification          | Basic |   | ✓ |   | ✓ |   |   | ✓ |   | ✓ |   |   |   |
|                                        | Arch51003 | Profession Practice                   | Basic | ✓ |   |   |   | ✓ |   |   |   | ✓ |   |   | ✓ |
|                                        | Arch51004 | Contemporary Iraqi architecture       | Basic | ✓ |   |   | ✓ |   |   |   | ✓ |   |   | ✓ |   |
|                                        | Arch51005 | Architectural criticism theories      | Basic | ✓ |   |   |   |   |   |   | ✓ |   | ✓ |   |   |

**FIRST-YEAR\ FIRST-SEMESTER  
MODULE DESCRIPTION FORM**

Module Information

معلومات المادة الدراسية

|              |                                      |                 |
|--------------|--------------------------------------|-----------------|
| Module Title | Principles of Art and Architecture I | Module Delivery |
|--------------|--------------------------------------|-----------------|

**First-year**

|              |          |                                                                                                                                                                                                                                                     |
|--------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Type  | S        | <input checked="" type="checkbox"/> Theory<br><input checked="" type="checkbox"/> Lecture<br><input type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial<br><input type="checkbox"/> Practical<br><input checked="" type="checkbox"/> Seminar |
| Module Code  | Arch1102 |                                                                                                                                                                                                                                                     |
| ECTS Credits | 2        |                                                                                                                                                                                                                                                     |
| SWL (hr/sem) | 50       |                                                                                                                                                                                                                                                     |

|                                    |                          |                               |                                              |
|------------------------------------|--------------------------|-------------------------------|----------------------------------------------|
| Module Level                       | UGI                      | Semester of Delivery          | 1                                            |
| Administering Department           | Architecture Engineering | College                       | Engineering                                  |
| Module Leader                      | Name: DR.HUSSAM JABBAR   | e-mail                        | E-mail<br>Eng.hussam.jabbar@uobabylon.end.iq |
| Module Leader's Acad. Title        | Professor                | Module Leader's Qualification | Ph.D.                                        |
| Module Tutor                       | Name (if available)      | e-mail                        | E-mail<br>Eng.hussam.jabbar@uobabylon.end.iq |
| Peer Reviewer Name                 | Name                     | e-mail                        | E-mail<br>Eng.hussam.jabbar@uobabylon.end.iq |
| Scientific Committee Approval Date | 01/06/2023               | Version Number                | 1.0                                          |

Relation with other Modules

العلاقة مع المواد الدراسية الأخرى

|                      |      |          |  |
|----------------------|------|----------|--|
| Prerequisite module  | None | Semester |  |
| Co-requisites module | None | Semester |  |

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                      | The course aims to develop the capabilities of analysis and criticism by establishing the necessary principles and enhancing the study of the concepts of space, mass and form from various aspects, and reviewing the most important critical proposals that dealt with architecture as a hybrid product of science and art and deepening the student's sense at the entrance to his academic life of design elements such as line, direction, color and texture ..... etc. The course also aims to explain in detail the artistic trends in the nineteenth and twentieth centuries and link them with architecture so that the influence of each of these artistic movements on architecture becomes clear. On the contrary, the classical approach began with Greece and Romanism and ended with the new modernity approach in the nineties The last century and the beginning of the second millennium, passing through many artistic movements, including romanticism, impressionism, brutalism, cubism, expressionism, performance, surrealism, constructivism, Russian, and Steele |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية | Acquaint the student with art and architecture<br>To familiarize the student with the capabilities of scientific criticism<br>Know the basics of architectural design<br>Identify the elements of architectural design<br>Learn the principles of architectural design                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Indicative Contents<br>المحتويات الإرشادية                | Developing the capabilities of the student's artistic (3hrs)<br>architectural creative thinking by developing his architectural information (4hrs)<br>developing his drawing capabilities (4hrs)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

|  |                                                                                                                                                                                                                                                   |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | building his architectural memory by viewing architectural products with pictures and videos.<br>( 3hrs)<br>The student's memory is also developed by feeding it with the biographies of international architects and architecture masters (3hrs) |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### Learning and Teaching Strategies

#### استراتيجيات التعلم والتعليم

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategies | The strategies of the curriculum are divided into first: distant goals such as building a generation of architects capable of innovation that has high architectural taste and intermediate goals through building contemporary architectural thought that is able to combine contemporary, preservation and close goals through developing the student's architectural talents and providing them with intellectual and technical tools. |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### Student Workload (SWL)

#### الحمل الدراسي للطالب

|                                                                         |    |                                                                     |     |
|-------------------------------------------------------------------------|----|---------------------------------------------------------------------|-----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطالب خلال الفصل       | 33 | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطالب أسبوعياً       | 2.2 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطالب خلال الفصل | 17 | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطالب أسبوعياً | 1.2 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطالب خلال الفصل              | 50 |                                                                     |     |

#### Module Evaluation

#### تقييم المادة الدراسية

|                      |                 | Time/Number | Weight (Marks)   | Week Due | Relevant Learning Outcome |
|----------------------|-----------------|-------------|------------------|----------|---------------------------|
| Formative assessment | Quizzes         | 1           | 5%               | 3.8      |                           |
|                      | Assignments     | 1           | 5%               | 13.15    |                           |
|                      | Projects / Lab. |             |                  |          |                           |
|                      | Report          | 10%         | 10%              | 10-15    |                           |
| Summative assessment | Midterm Exam    | 2 hr        | 30%              | 6,11     |                           |
|                      | Final Exam      | 3hr         | 50% (50)         | 16       | All                       |
| Total assessment     |                 |             | 100% (100 Marks) |          |                           |

#### Delivery Plan (Weekly Syllabus)

#### المناهج الأسبوعي النظري

|         |                                                                                                                                                              |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | Material Covered Part 1                                                                                                                                      |
| Week 1  | The ability of analysis and criticism                                                                                                                        |
| Week 2  | Perception of the architecture in the light of the intellectual development of its critics: Lewis was, Colin Lane, Alvaralto Broadbent, Zvi, Saranan, Ruskin |
| Week 3  | Architectural features and acquaintances in the light of the proposals Fterovios and Alberti and Allsopp, etc. ..                                            |
| Week 4  | Target architecture in the light of the proposals Lewis was, Kirroyon, Antundiades .... etc.                                                                 |
| Week 5  | L Principles of Design: congruence and similarity and difference of proportionality and balance of unity and homogeneity                                     |
| Week 6  | Design elements:Line, direction, shape, size, texture and color and optical value                                                                            |
| Week 7  | Figure kinds of shapes, production methods Figure) Space (types of spaces)                                                                                   |
|         | Explanation of the first architectural trends (in theory and practice)                                                                                       |
| Week 8  | Organic trend in architecture and the trend in the expressionist architecture                                                                                |
| Week 9  | Organic trend in architecture and the trend in the expressionist architecture – supplement                                                                   |
| Week 10 | General explanation of the architectural trends in the nineteenth and twentieth and its relationship to architecture                                         |
| Week 11 | Being in the meaning and Architecture                                                                                                                        |
| Week 12 | analysis marks (semiotics)                                                                                                                                   |
| Week 13 | Experimental research of aesthetics and criticism                                                                                                            |

|         |                                                                                |
|---------|--------------------------------------------------------------------------------|
| Week 14 | Two Port Networks, Admittance, Impedance, Hybrid, and Transmittance Parameters |
|---------|--------------------------------------------------------------------------------|

Delivery Plan (Weekly Lab. Syllabus)  
المناهج الأسبوعي للمختبر

|                  |
|------------------|
| Material Covered |
|------------------|

Learning and Teaching Resources  
مصادر التعلم والتدريس

|                   | Text                                                                                                                                                                                                                                | Available in the Library? |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Required Texts    | مبادئ الفن والعمارة                                                                                                                                                                                                                 | Yes                       |
| Recommended Texts | عصر اساطين العمارة<br>لمحات من تاريخ العمارة<br>التعقيد والتناقض بالعمارة<br>العمارة وتفسيرها                                                                                                                                       | No                        |
| Websites          | <a href="https://www.academia.edu/3882812/%D9%86%D8%B8%D8%B1%D9%8A%D8%A9_%D8%A7%D9%84%D8%B9%D9%85%D8%A7%D8%B1%D8%A9">https://www.academia.edu/3882812/%D9%86%D8%B8%D8%B1%D9%8A%D8%A9_%D8%A7%D9%84%D8%B9%D9%85%D8%A7%D8%B1%D8%A9</a> |                           |

Grading Scheme  
مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A – Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                             | C – Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                             | E – Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 – 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |

Module Information  
معلومات المادة الدراسية

|                                    |                         |                          |                               |                                                                                                                                                                                                      |       |
|------------------------------------|-------------------------|--------------------------|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Module Title                       | Mathematics I           |                          |                               | Module Delivery                                                                                                                                                                                      |       |
| Module Type                        | B                       |                          |                               | <input checked="" type="checkbox"/> Theory<br>Lecture<br><input type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial<br><input type="checkbox"/> Practical<br><input type="checkbox"/> Seminar |       |
| Module Code                        | Arch1103                |                          |                               |                                                                                                                                                                                                      |       |
| ECTS Credits                       | 2                       |                          |                               |                                                                                                                                                                                                      |       |
| SWL (hr/sem)                       | 50                      |                          |                               |                                                                                                                                                                                                      |       |
| Module Level                       |                         | UGI                      | Semester of Delivery          |                                                                                                                                                                                                      | 1     |
| Administering Department           |                         | Architecture Engineering | College                       | University of Babylon                                                                                                                                                                                |       |
| Module Leader                      | Fatimah Fahem Alkhafaji |                          | e-mail                        | mat.fatimah.fahem@uobabylon.edu.iq                                                                                                                                                                   |       |
| Module Leader's Acad. Title        |                         | Assist.Professor         | Module Leader's Qualification |                                                                                                                                                                                                      | Ph.D. |
| Module Tutor                       | Name (if available)     |                          | e-mail                        | E-mail                                                                                                                                                                                               |       |
| Peer Reviewer Name                 |                         | Name                     | e-mail                        | E-mail                                                                                                                                                                                               |       |
| Scientific Committee Approval Date |                         | 01/06/2023               | Version Number                |                                                                                                                                                                                                      | 1.0   |

Relation with other Modules  
العلاقة مع المواد الدراسية الأخرى

|                      |      |          |  |
|----------------------|------|----------|--|
| Prerequisite module  | None | Semester |  |
| Co-requisites module | None | Semester |  |

### Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                      | It is to give the student a general idea of mathematics as basic principles for a student in the College of Engineering, with the addition of some engineering applications that benefit the architecture student in his advanced stages.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية | <ol style="list-style-type: none"> <li>1. Studying the Cartesian axes and the basics of analytical geometry (.</li> <li>2. Learn a set of ways to draw functions using different techniques.</li> <li>3. Using the concept of purpose, approximation, and approximation in consolidating and understanding the concept of mathematical differentiation.</li> <li>4. Using the concept of purpose to explain the concept of differentiation and derivatives.</li> <li>5. Application of quantitative and numerical methods for the purpose of solving engineering problem.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Indicative Contents<br>المحتويات الإرشادية                | <ul style="list-style-type: none"> <li>• Integral Calculus (8hr)<br/>Idea of integral, including elementary treatment of the definite integral as a limit using rectangles. Fundamental theorem of calculus. Methods of integration including integration by substitution, by parts and with partial fractions. Relation of integrals with areas. Trapezium and Simpson's rules for numerical integration.</li> <li>• Differential Equations (10hr)<br/>First order ordinary differential equations by (a) separation and (b) integrating factor. Second order ordinary differential equations with constant coefficients and simple right-hand sides. (Complex roots included, but no resonance problems).</li> <li>• Vectors (4hr)<br/>Vector geometry in <math>R^2</math> and <math>R^3</math> vector properties and manipulation. Unit vectors, position vectors, Cartesian coordinates. Scalar product and vector product.</li> <li>• Matrices and linear equations (4hr)<br/>Matrix properties, addition, multiplication. Inverse matrices, determinants. Linear mappings in <math>R^2</math> (rotation, reflection). Systems of linear equations, Gaussian elimination and row operations.</li> <li>• Lines, planes and spheres (4hr)<br/>Implicit and parametric equations of lines. Implicit equations of planes. Intersections, distances between points, lines and planes. Equations of spheres, tangent planes. Linear dependence and independence, collinear and coplanar vectors.</li> </ul> |

### Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

|            |                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategies | <ul style="list-style-type: none"> <li>• The usual theoretical presentation method using the writing board and depending on the method (how and why) of the subject and according to the curriculum of the subject.</li> <li>• Theoretical presentation method using the (data show) device, depending on the method (how and why) of the subject and according to the curriculum of the subject.</li> </ul> |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Student Workload (SWL)

الحمل الدراسي للطالب

|                                                                         |    |                                                                     |     |
|-------------------------------------------------------------------------|----|---------------------------------------------------------------------|-----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطالب خلال الفصل       | 33 | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطالب أسبوعياً       | 2.2 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطالب خلال الفصل | 17 | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطالب أسبوعياً | 1.2 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطالب خلال الفصل              | 50 |                                                                     |     |

Module Evaluation  
تقييم المادة الدراسية

|                      |                 | Time/Number | Weight (Marks)   | Week Due   | Relevant Learning Outcome |
|----------------------|-----------------|-------------|------------------|------------|---------------------------|
| Formative assessment | Quizzes         | .5          | 10% (5)          | 5, 10      | LO #1, 2, 10 and 11       |
|                      | Assignments     | 2           | 10% (5)          | 2, 12      | LO # 3, 4, 6 and 7        |
|                      | Projects / Lab. | 1           | 10% (5)          | Continuous |                           |
|                      | Report          | 1           | 10% (5)          | 13         | LO # 5, 8 and 10          |
| Summative assessment | Midterm Exam    | 2 hr        | 10% (30)         | 7          | LO # 1-7                  |
|                      | Final Exam      | 3hr         | 50% (50)         | 16         | All                       |
| Total assessment     |                 |             | 100% (100 Marks) |            |                           |

Delivery Plan (Weekly Syllabus)  
المنهاج الاسبوعي النظري

| Week    | Material Covered                                                                                                                                                                                              |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Week 1  | General introduction of numbers system and absolute values part1                                                                                                                                              |
| Week 2  | General introduction of numbers system and absolute values part1                                                                                                                                              |
| Week 3  | Definition of function and determination of domain and range                                                                                                                                                  |
| Week 4  | Trigonometric function and its inverse ( graph, domain and range)                                                                                                                                             |
| Week 5  | Trigonometric function and its inverse ( graph, domain and range)                                                                                                                                             |
| Week 6  | Derivatives and its application in normal and trigonometric function and its inverses and using of derivatives in applications like determination of approximate values an local maximum and minimum points . |
| Week 7  | Derivatives and its application in normal and trigonometric function and its inverses and using of derivatives in applications like determination of approximate values an local maximum and minimum points . |
| Week 8  | Derivatives and its application in normal and trigonometric function and its inverses and using of derivatives in applications like determination of approximate values an local maximum and minimum points . |
| Week 9  | Derivatives and its application in normal and trigonometric function and its inverses and using of derivatives in applications like determination of approximate values an local maximum and minimum points . |
| Week 10 | Derivatives and its application in normal and trigonometric function and its inverses and using of derivatives in applications like determination of approximate values an local maximum and minimum points . |
| Week 11 | Limits                                                                                                                                                                                                        |
| Week 12 | Limits                                                                                                                                                                                                        |
| Week 13 | Graph of functions                                                                                                                                                                                            |
| Week 14 | Graph of functions                                                                                                                                                                                            |
| Week 15 | Overview                                                                                                                                                                                                      |

Delivery Plan (Weekly Lab. Syllabus)  
المنهاج الاسبوعي للمختبر

Learning and Teaching Resources  
مصادر التعلم والتدريس

|                   | Text                                                                                                                                               | Available in the Library? |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Required Texts    | Calculus, Thomas, Pearson Education 2005                                                                                                           | Yes                       |
| Recommended Texts | <ul style="list-style-type: none"> <li>Calculus (Haward Anton)</li> <li>Advanced Mathematics for Engineering Studies (Riad Ahmed Ezzat)</li> </ul> |                           |
| Websites          | Websites and websites discreet .<br>Library locations in some international universities                                                           |                           |

### Grading Scheme

مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A – Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                             | C – Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                             | E – Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 – 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |
|                             |                  |                     |           |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

### Module Information

معلومات المادة الدراسية

|                                    |                     |                          |                               |                                                                                                                                                                                                                                                                |       |
|------------------------------------|---------------------|--------------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Module Title                       | Computer I          |                          |                               | Module Delivery                                                                                                                                                                                                                                                |       |
| Module Type                        | <u>B</u>            |                          |                               | <input checked="" type="checkbox"/> Theory<br><input checked="" type="checkbox"/> Lecture<br><input checked="" type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial<br><input checked="" type="checkbox"/> Practical<br><input type="checkbox"/> Seminar |       |
| Module Code                        | Arch1114            |                          |                               |                                                                                                                                                                                                                                                                |       |
| ECTS Credits                       | <u>3</u>            |                          |                               |                                                                                                                                                                                                                                                                |       |
| SWL (hr/sem)                       | <u>75</u>           |                          |                               |                                                                                                                                                                                                                                                                |       |
| Module Level                       |                     | UGI                      | Semester of Delivery          |                                                                                                                                                                                                                                                                | 1     |
| Administering Department           |                     | Architecture Engineering | College                       | University of Babylon                                                                                                                                                                                                                                          |       |
| Module Leader                      | Dr.evan madhy hamza |                          | e-mail                        | Eng.evan.rubae@uobabylon.edu.iq                                                                                                                                                                                                                                |       |
| Module Leader's Acad. Title        |                     | Professor                | Module Leader's Qualification |                                                                                                                                                                                                                                                                | Ph.D. |
| Module Tutor                       | Name (if available) |                          | e-mail                        | E-mail                                                                                                                                                                                                                                                         |       |
| Peer Reviewer Name                 |                     | Name                     | e-mail                        | E-mail                                                                                                                                                                                                                                                         |       |
| Scientific Committee Approval Date |                     | 01/06/2023               | Version Number                |                                                                                                                                                                                                                                                                | 1.0   |

### Relation with other Modules

العلاقة مع المواد الدراسية الأخرى

|                      |      |          |  |
|----------------------|------|----------|--|
| Prerequisite module  | None | Semester |  |
| Co-requisites module | None | Semester |  |

### Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

|                                      |                                                                                                                                                                                                                                                                          |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية | The student, after completing the academic year, is able to:<br>1. Introducing students to generations and components of computers<br>2. Familiarize students with the Windows 7 operating system<br>3. Dealing with the Ward system with all its available capabilities |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                           | 4. How to deal with the Excel system - Developing the student's ability to use the Excel program and the method of using equations in Excel<br>5. Dealing with charts<br>6. Introducing the PowerPoint program and identifying its capabilities<br>7. Introducing the student to the Photoshop program and how to deal with it<br>8. Introducing students to the Internet and how to deal with it and search for it.                                            |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية | The student should be able to deal with the Excel system in terms of mathematical operations and equations, how to make presentations in the Power Point system, and knowledge of the calculator and its operation                                                                                                                                                                                                                                              |
| Indicative Contents<br>المحتويات الإرشادية                | 1- The student should be familiar with the calculator and its components (10hu)<br>2- To be interested in mathematical operations and electronic tables through his knowledge of the Excel system (10hu)<br>3- To have knowledge of the PowerPoint system to be able to do research and how to display it on different display screens (10hu)<br>4- Knowledge of Photoshop is important for the student in many fields, including architectural rendering (7hu) |

#### Learning and Teaching Strategies

##### استراتيجيات التعلم والتعليم

|            |                                                                                                                                                                                                                               |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategies | 1- Conducting research and reports on Excel and using the most important equations and applying them in several systems<br>2- Creating reports and presenting them in a Power Point manner<br>3- Make designs using Photoshop |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### Student Workload (SWL)

##### الحمل الدراسي للطالب

|                                                                         |     |                                                                     |     |
|-------------------------------------------------------------------------|-----|---------------------------------------------------------------------|-----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطالب خلال الفصل       | 63  | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطالب أسبوعياً       | 4.2 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطالب خلال الفصل | 37  | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطالب أسبوعياً | 2.4 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطالب خلال الفصل              | 100 |                                                                     |     |

#### Module Evaluation

##### تقييم المادة الدراسية

|                      |                 | Time/Number | Weight (Marks)   | Week Due | Relevant Learning Outcome |
|----------------------|-----------------|-------------|------------------|----------|---------------------------|
| Formative assessment | Quizzes         | 2           | 10% (10)         | 5, 10    | LO #1, 2, 10 and 11       |
|                      | Assignments     |             |                  |          |                           |
|                      | Projects / Lab. |             |                  |          |                           |
|                      | Report          | 1           | 10% (10)         | 13       | LO # 5, 8 and 10          |
| Summative assessment | Midterm Exam    | 2 hr        | 30% (30)         | 7        | LO # 1-7                  |
|                      | Final Exam      | 2hr         | 50% (50)         | 16       | All                       |
| Total assessment     |                 |             | 100% (100 Marks) |          |                           |

#### Delivery Plan (Weekly Lab. Syllabus)

##### المنهاج الأسبوعي للمختبر

|        | Material Covered                                                           |
|--------|----------------------------------------------------------------------------|
| Week 1 | Subject                                                                    |
| Week 2 | Definition of the computer, its components, types and methods of operation |
| Week 3 | Personal computer, workstation, minicomputer, mainframe and supercomputer  |
| Week 4 | Tower model, desktop model and notebook computer                           |
| Week 5 | Explanation system ms-dos                                                  |

|         |                                                                             |
|---------|-----------------------------------------------------------------------------|
| Week 6  | Explanation the order of system ms-dos( cd, dir,copy,del,edit,move,ren,cls) |
| Week 7  | definition of the file and type                                             |
| Week 8  | Examination                                                                 |
| Week 9  | The basic functions of the operating system                                 |
| Week 10 | The most important characteristics of Windows 7                             |
| Week 11 | Some common types of operating systems.                                     |
| Week 12 | Features a word processor program                                           |
| Week 13 | Explanation the list of insert(picture,shape,table,chart)                   |
| Week 14 | Explanation file (save,save as,open,new,print,exit)                         |
| Week 15 | Explanation page layout                                                     |

### Delivery Plan (Weekly Syllabus)

المناهج الاسبوعي النظري

|                  |
|------------------|
| Material Covered |
|------------------|

### Learning and Teaching Resources

مصادر التعلم والتدريس

|                   | Text                                                            | Available in the Library? |
|-------------------|-----------------------------------------------------------------|---------------------------|
| Required Texts    | Data and information technology<br>Introduction to the computer | Yes                       |
| Recommended Texts |                                                                 | No                        |
| Websites          |                                                                 |                           |

### Grading Scheme

مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A – Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                             | C – Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                             | E – Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 – 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

### Module Information

معلومات المادة الدراسية

| Module Title | Arabic language | Module Delivery                                                                                                                                                                                                 |
|--------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Type  | B               | <input checked="" type="checkbox"/> Theory<br>Lecture<br><input type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial<br><input checked="" type="checkbox"/> Practical<br><input type="checkbox"/> Seminar |
| Module Code  | UOBAB1102       |                                                                                                                                                                                                                 |
| ECTS Credits | 2               |                                                                                                                                                                                                                 |
| SWL (hr/sem) | 50              |                                                                                                                                                                                                                 |
| Module Level | UG I            | Semester of Delivery                                                                                                                                                                                            |
|              |                 | 1                                                                                                                                                                                                               |

|                                    |                          |                               |                       |
|------------------------------------|--------------------------|-------------------------------|-----------------------|
| Administering Department           | Architecture Engineering | College                       | University of Babylon |
| Module Leader                      | Ashref mana farhood      | e-mail                        | ashrefmana@gmail.com  |
| Module Leader's Acad. Title        | Professor                | Module Leader's Qualification | Ph.D.                 |
| Module Tutor                       | Name (if available)      | e-mail                        | E-mail                |
| Peer Reviewer Name                 | Name                     | e-mail                        | E-mail                |
| Scientific Committee Approval Date | 01/06/2023               | Version Number                | 1.0                   |

| Relation with other Modules<br>العلاقة مع المواد الدراسية الأخرى |      |          |  |
|------------------------------------------------------------------|------|----------|--|
| Prerequisite module                                              | None | Semester |  |
| Co-requisites module                                             | None | Semester |  |

| Module Aims, Learning Outcomes and Indicative Contents<br>أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                                                                               | لطلبة وتمكينهم من التعبير عن أفكارهم أن الهدف من تدريس مادة اللغة العربية في هذا القسم هو الكفاءة اللغوية الغلط واللون العامي والاعجمي بآبسط الطرق . فاللغة هي أداة ومشاريعهم بلغه عربية فصيح وواضح خاليه من أفراد المجتمع ، ومتى تمكن الانسان من لغته استطاع الوصول الى أذهان الآخرين بحيث الايصال الاولى بين وان ذلك يؤدي الى تحقيق التوازن المفترض في ثقافته . يسهل تعامله معهم ويتمكن من تحقيق هدفه في العمل هذ نوعاً من التعادل بين مناهج المادة العلمية ووسيله ايصالها او التعبير عنها وتتضمن الطلبة فهو يضمن الاغلاط اللغويه الشائعه ، المحاضرات تدريس ماياتي : قواعد اللغة العربية ، وقواعد الاملاء ، ومعالجه بعض _ فضلا عن دراسته بعض النصوص الادبيه والقرانيه                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية                                                          | التعرف إلى مستويات نظام اللغة العربية.<br>معرفة القواعد النحوية والصرفية.<br>وصف المناهج النقدية والظواهر الأدبية.<br>التعريف بأبرز المصنفات اللغوية والأدبية.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Indicative Contents<br>المحتويات الإرشادية                                                                         | المهارات العملية أو المهنية:<br>قراءة النصوص الأدبية وكتابتها وفق المعايير النحوية والصرفية. (1 ساعة)<br>تقطيع الشعر العربي وفقاً للبحور الشعرية في علم العروض. (1 ساعة)<br>تدقيق النصوص الأدبية وتصويب الأخطاء الواردة فيها. (1 ساعة)<br>الكتابة الإبداعية التي تعبر عن الذات وقضايا المجتمع. (1 ساعة)<br>التعبير الشفوي وفن الإلقاء في الميدان المهني والمناسبات العامة. (1 ساعة)<br>توظيف أدوات البحث العلمي في كتابة الأبحاث العلمية. (1 ساعة)<br>استخدام المعاجم اللغوية.<br><br>المهارات المنقولة/ العامة:<br>ممارسة الكتابة والكلام باللغة العربية الفصيحة. (1 ساعة)<br>كتابة المقالات الأدبية بلغة سليمة. (1 ساعة)<br>تنويع مصادر التعلم ووسائل التقويم. (1 ساعة)<br>مواجهة المشاكل التي تواجهه في مهنته وحلها. (1 ساعة)<br>التكيف مع وظائف بديلة عن الوظيفة التي يقتضيها التخصص. (1 ساعة)<br><br>مهارات الاتصال، وتقنية المعلومات:<br>الاتصال والتواصل مع الآخرين. (1 ساعة)<br>تعزيز المحتوى العربي على الشبكة العنكبوتية. (1 ساعة)<br>التعلم الإلكتروني واستخدام الحاسوب في التعليم. (1 ساعة)<br>تعزيز الثقة بالنفس والجرأة والفصاحة. (1 ساعة)<br>المنافسة والتميز في سوق العمل. (1 ساعة) |

| Learning and Teaching Strategies<br>استراتيجيات التعلم والتعليم |                                                                                                                                                                                                            |
|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategies                                                      | إن اللغة العربية لغة عريقة وقديمة، بالإضافة إلى ذلك فهي لغة القرآن الكريم، والتي يجب على جميع المسلمين إتقانها.<br>تحافظ اللغة العربية على الإرث الثقافي والأدبي الكبير التي تركه الأديباء والعلماء العرب. |

تساعد اللغة العربية الطالب على التعبير عن نفسه بشكل صحيح وأسلوب سليم، وذلك نظرا لأن التلاميذ من خلالها يتعلمون المفاهيم والمصطلحات ويستوعبون، ومن ثم يقومون باستخدام هذه المصطلحات للتعبير عن أفكارهم. تلعب اللغة العربية في تزويد الطالب بعدد كبير من المفردات الأمر الذي يجعله يستخدم اللغة بكل يسر وسهولة وخاصة في حال رغب في كتابة الشعر والأدب. هذه كانت أبرز طرق تدريس اللغة العربية والتيمين خلالها يتم تعليم الطلاب اللغة العربية بشكل سليم ليلعبوا دورهم في الحفاظ على اللغة العربية وتطويرها، ودفعها إلى الأمام.

#### Student Workload (SWL)

الحمل الدراسي للطلاب

|                                                                    |    |     |
|--------------------------------------------------------------------|----|-----|
| Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطلاب أسبوعيا       | 33 | 2.2 |
| Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطلاب أسبوعيا | 17 | 1.4 |
| Total SWL (h/w)<br>الحمل الدراسي الكلي للطلاب خلال الفصل           | 50 |     |

#### Module Evaluation

تقييم المادة الدراسية

|                      | Time/Number     | Weight (Marks)   | Week Due | Relevant Learning Outcome |
|----------------------|-----------------|------------------|----------|---------------------------|
| Formative assessment | Quizzes         | 1                | 10% (10) | 5, 10                     |
|                      | Assignments     | 3                | 10% (10) | 8                         |
|                      | Projects / Lab. |                  |          |                           |
|                      | Report          | 1                | 10% (10) | 13                        |
| Summative assessment | Midterm Exam    | 2 hr             | 20% (20) | 7                         |
|                      | Final Exam      | hr3              | 50% (50) | 16                        |
| Total assessment     |                 | 100% (100 Marks) |          |                           |

#### Delivery Plan (Weekly Syllabus)

المنهاج الأسبوعي النظري

|         | Material Covered                                                   |
|---------|--------------------------------------------------------------------|
| Week 1  | قواعد اللغة العربية : الكلام وما يتألف منه : الاسم ، والفعل والحرف |
| Week 2  | قواعد : الفعل واقسامه ، علاماته ، الفعل الماضي                     |
| Week 3  | قواعد فعل الامر ، الحرف وما يتميز به                               |
| Week 4  | قواعد : الاعراب والبناء ، وعلاماته الاعراب ، والمثنى والملحق به    |
| Week 5  | ادب ، ونص شعري ، ودراسة وتحليل                                     |
| Week 6  | قواعد : جمع المذكر السالم / والملحق به                             |
| Week 7  | قواعد : الملحقه بالاسماء الستة                                     |
| Week 8  | قواعد : المبتدأ والخبر ، انواع المبتدأ واحكامه                     |
| Week 9  | قواعد : الخبر ، تعريفه وانواعه                                     |
| Week 10 | املاء : قواعد كتابه الهزمة                                         |
| Week 11 | ادب : نص نثري . دراسة وتحليل                                       |
| Week 12 | قواعد : اغلاط لغويه شائع                                           |
| Week 13 | املاء : قواعد كتابه الالف في نهايه الكلمة                          |
| Week 14 | محاضرة عامه ومناقشات                                               |
| Week 15 | امتحان                                                             |

#### Delivery Plan (Weekly Lab. Syllabus)

المنهاج الأسبوعي للمختبر

#### Learning and Teaching Resources

مصادر التعلم والتدريس

|  | Text | Available in the |
|--|------|------------------|
|--|------|------------------|

|                   |                                                                                     |          |
|-------------------|-------------------------------------------------------------------------------------|----------|
|                   |                                                                                     | Library? |
| Required Texts    | - شرح ابن عقيل على الفية ابن مالك .<br>- جامع الدروس العربية تأليف مصطفى الغلاييني. | Yes      |
| Recommended Texts |                                                                                     | No       |
| Websites          |                                                                                     |          |

| Grading Scheme<br>مخطط الدرجات |                  |                     |           |                                       |
|--------------------------------|------------------|---------------------|-----------|---------------------------------------|
| Group                          | Grade            | التقدير             | Marks (%) | Definition                            |
| Success Group<br>(50 - 100)    | A - Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                                | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                                | C - Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                                | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                                | E - Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 - 49)         | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                                | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |
|                                |                  |                     |           |                                       |

| Module Information<br>معلومات المادة الدراسية |                                           |                          |                               |                                                                                                                                                                                                                                   |                          |
|-----------------------------------------------|-------------------------------------------|--------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Module Title                                  | Architectural design I & Graphic design I |                          |                               | Module Delivery                                                                                                                                                                                                                   |                          |
| Module Type                                   | C                                         |                          |                               | <div><input checked="" type="checkbox"/> Theory<br/>Lecture<br/><input type="checkbox"/>x Lab<br/>x<input type="checkbox"/> Tutorial<br/><input checked="" type="checkbox"/> Practical<br/><input type="checkbox"/> Seminar</div> |                          |
| Module Code                                   | Arch1111                                  |                          |                               |                                                                                                                                                                                                                                   |                          |
| ECTS Credits                                  | 12                                        |                          |                               |                                                                                                                                                                                                                                   |                          |
| SWL (hr/sem)                                  | 300                                       |                          |                               |                                                                                                                                                                                                                                   |                          |
| Module Level                                  |                                           | UGx11 1                  | Semester of Delivery          |                                                                                                                                                                                                                                   | 1                        |
| Administering Department                      |                                           | Architecture Engineering | College                       | University of Babylon                                                                                                                                                                                                             |                          |
| Module Leader                                 | Name: mahmood.rezooky                     |                          | e-mail                        | E-mail<br>eng.mahmood.rezooky@uobabylon.edu.iq                                                                                                                                                                                    |                          |
| Module Leader's Acad. Title                   |                                           | Professor                | Module Leader's Qualification |                                                                                                                                                                                                                                   | Ph.D.<br>mahmood.rezooky |
| Module Tutor                                  | Name: Ph.D. ola.abid                      |                          | e-mail                        | E-mail: eng.ola.abid@uobabylon.edu.iq                                                                                                                                                                                             |                          |
| Peer Reviewer Name                            |                                           | Name                     | e-mail                        | E-mail                                                                                                                                                                                                                            |                          |
| Scientific Committee Approval Date            |                                           | 01/06/2023               | Version Number                |                                                                                                                                                                                                                                   | 1.0                      |

| Relation with other Modules<br>العلاقة مع المواد الدراسية الأخرى |   |          |   |
|------------------------------------------------------------------|---|----------|---|
| Prerequisite module                                              | c | Semester | 1 |
| Co-requisites module                                             | c | Semester |   |

| Module Aims, Learning Outcomes and Indicative Contents<br>أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية |                                                                                           |
|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Module Aims                                                                                                        | Preparing the student to enter the world of architecture intellectually, conceptually and |

|                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>أهداف المادة الدراسية</p>                                         | <p>scientifically as a basic work base, and introducing him to the concept of architecture by identifying the principles of design, composition, the third dimension, the architectural space, the human scale, the surroundings of the urban environment, and others. And the development of the student's language of expression for those vocabulary and others. The subject also focuses on developing his artistic and formative sense and the analytical-synthetic thinking style, as well as developing his perception and sensitivity to the natural and urban environment and respect for it, starting from realizing and appreciating the urban environment and studying the formative, formative and directive relationships of its elements and components. تهيئة الطالب لدخول عالم العمارة فكريا ومفاهيميا وعلميا. وكقاعدة عمل أساسية، وتعريفه بمفهوم العمارة من خلال التعرف على مبادئ التصميم والتكوين والبعد الثالث والفضاء المعماري والمقياس الانساني ومحيط البيئة الحضرية وغيرها. وتنمية لغة التعبير لدى الطالب عن تلك المفردات وغيرها. ويركز الموضوع ايضا على تنمية الحس الفني والتكويني لديه ونمط التفكير التحليلي -التركيبى فضلا عن تنمية ادراكه وتحسسه للبيئة الطبيعية والعمرانية واحترامها ابتداء من ادراك وتذوق البيئة لحضرية ودراة العلاقات التكوينية والتشكيلية والاخراجية لعناصرها ومكوناتها.</p> <p>The architectural drawing is one of the most important means of expressing the architectural design ideas. Therefore, the course aims to build and develop the student's expressive skill in addition to training him on the use of different materials and techniques in presentation. The subject focuses on the gradual building of the student's skills through a clear sequential exercise, starting from exercises related to line values and ending with two-dimensional drawings (Two Dimensional Drawings). ) represented by the horizontal and vertical sections (Sections and Elevations plans. الرسم المعماري احد اهم وسائل التعبير عن افكار المعماري التصميمية. فان المادة تهدف الى بناء وتنمية مهارات الطالب التعبيرية بالاضافة الى تدريبه على استخدام المواد والتقنيات في الموضوع على البناء التدريجي لمهارات الطالب من خلال التسلسل الواضح Presentation المختلفة في الاظهار ) Two Dimensional Drawings للتمرين ابتداء من التمارين الخاصة بقيم الخط ووصول الى الرسومات ذات البعدين ) Sections and Elevations plans, (التمثلة بالمساقط الافقية والعمودية )</p> |
| <p>Module Learning Outcomes</p> <p>مخرجات التعلم للمادة الدراسية</p> | <p>The student is prepared through architectural design and drawing for a full year, after which he is able to use all that he has learned from calligraphy technique, binary and triple formation in addition to the human scale, the basics of architectural design, then he can identify the elements of architectural design and learn the principles of architectural design. He then qualifies in a simple form for architectural criticism. And guidance to design something primitive for a simple project. Where it is fully prepared for it in terms of the student's ability to design what is required of him in a way that leads to his development later in the second stage</p> <p>يتهيئ الطالب من خلال التصميم والرسم المعماري لمدة سنة كاملة حيث يتمكن بعدها من استخدام كل ما تعلمه من تقنيات الخط والتكوين الثنائي والثلاثي اضافة الى المقياس الانساني أساسيات التصميم المعماري ثم يستطيع بعدها التعرف على عناصر التصميم المعماري وتعلم مبادئ التصميم المعماري يتأهل بعدها بشكل بسيط للنقد المعماري والتوجيه لتصميم شئ بدائي لمشروع بسيط. حيث يكون متهيأ لها بشكل كامل من حيث قدرة الطالب على تصميم ما مطلوب منه بشكل يؤدي الى ان يتطور لاحقا في المرحلة الثانية</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <p>Indicative Contents</p> <p>المحتويات الإرشادية</p>                | <p>Developing the capabilities of the student's artistic (20hrs)<br/>architectural creative thinking by developing his architectural information (20hrs)<br/>developing his drawing capabilities (10hrs)<br/>building his architectural memory by viewing architectural products with pictures and videos. (10hrs)<br/>Learn how to show by professional hand drawing and in different styles, watercolors, acrylic markers, etc (10hrs)<br/>Performing all that is required of drawing class assignments from drawing projects in all their stages and showing them at a high professional level through manual drawing (30hrs)<br/>(تنمية قدرات الطالب الفنية (20 ساعة).<br/>التفكير الإبداعي المعماري من خلال تطوير معلوماته المعمارية (20 ساعة)<br/>تطوير قدراته في الرسم (10 ساعات).<br/>بناء ذاكرته المعمارية من خلال عرض المنتجات المعمارية بالصور والفيديو. (10 ساعات)<br/>تعلم كيفية العرض من خلال الرسم اليدوي الاحترافي وبأشكال مختلفة، وألوان مائية، وأقلام تحديد أكريليك، وما إلى ذلك (10 ساعات)<br/>القيام بكل ما هو مطلوب من رسم الواجبات الصفية من رسم المشاريع في جميع مراحلها وإظهارها على مستوى احترافي عالٍ من خلال الرسم اليدوي (30 ساعة).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

## Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies

## Student Workload (SWL)

الحمل الدراسي للطلاب

|                                                                         |     |                                                                     |    |
|-------------------------------------------------------------------------|-----|---------------------------------------------------------------------|----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطلاب خلال الفصل       | 180 | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطلاب أسبوعياً       | 12 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطلاب خلال الفصل | 120 | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطلاب أسبوعياً | 8  |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطلاب خلال الفصل              | 300 |                                                                     |    |

## Module Evaluation Architectural Design I

تقييم المادة الدراسية للتصميم المعماري I

|                      | Time/Number     | Weight (Marks) | Week Due | Relevant Learning Outcome |
|----------------------|-----------------|----------------|----------|---------------------------|
| Formative assessment | Quizzes         |                |          |                           |
|                      | Assignments     | 10             | 25% (25) | 2, 4,5,6,7, 9,10,11       |
|                      | Projects / Lab. | 2              | 15% (15) | Continuous                |
|                      | Report          |                |          |                           |
| Summative assessment | Midterm Exam    | 2              | 10%      | 12,14                     |
|                      | Final Exam      |                |          | All                       |
| Total assessment     |                 | 50% (50 Marks) |          |                           |

## Module Evaluation Architectural Drawing I

تقييم المادة الدراسية للرسم المعماري I

|                      | Time/Number     | Weight (Marks) | Week Due | Relevant Learning Outcome |
|----------------------|-----------------|----------------|----------|---------------------------|
| Formative assessment | Quizzes         |                |          |                           |
|                      | Assignments     |                |          |                           |
|                      | Projects / Lab. | 5              | 25% (25) | 2, 5, ,7 ,10,11           |
|                      | Report          | 4              | 20% (20) | Continuous                |
| Summative assessment | Midterm Exam    |                |          |                           |
|                      | Final Exam      | 2              | 10% (10) | 8, 14                     |
| Total assessment     |                 | 50% (50 Marks) |          |                           |

## Delivery Plan (Weekly Syllabus)

المناهج الأسبوعي النظري

|  |                  |
|--|------------------|
|  | Material Covered |
|--|------------------|

## Delivery Plan (Weekly Lab. Syllabus)

المناهج الأسبوعي للمختبر

|        |                                                                     |
|--------|---------------------------------------------------------------------|
| Week 1 | Quality of lines in free hand and to scale by measuring instruments |
| Week 2 | Composition fundamentals in pencil graphic shade                    |
| Week 3 | Composition fundamentals in collage                                 |
| Week 4 | Composition types                                                   |
| Week 5 | Color circle                                                        |
| Week 6 | Composition in color                                                |

|         |                                     |
|---------|-------------------------------------|
| Week 7  | The abstraction                     |
| Week 8  | 2D composition abstraction – prelim |
| Week 9  | re- final                           |
| Week 10 | Final 2D composition of abstraction |
| Week 11 | Day Sketch                          |
| Week 12 | 3D composition                      |
| Week 13 | Human                               |

### Learning and Teaching Resources

مصادر التعلم والتدريس

|                   | Text                                                                                                                                                          | Available in the Library? |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Required Texts    | Neufert Architecture s Data<br>-Architectural Design Data<br>-Landscape Architectre<br>-Site construction Details<br>-Pencil Skeching<br>-Perspective Drawing | Yes                       |
| Recommended Texts |                                                                                                                                                               | No                        |
| Websites          |                                                                                                                                                               |                           |

### Grading Scheme

مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A - Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                             | C - Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                             | E - Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 – 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |
|                             |                  |                     |           |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

### Module Information

معلومات المادة الدراسية

|                          |                    |                          |                      |                                                                                                                                                                                                                                       |   |
|--------------------------|--------------------|--------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| Module Title             | Freehand Drawing I |                          |                      | Module Delivery                                                                                                                                                                                                                       |   |
| Module Type              | C                  |                          |                      | <input checked="" type="checkbox"/> Theory<br>Lecture<br><input checked="" type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial<br><input checked="" type="checkbox"/> Practical<br><input checked="" type="checkbox"/> Seminar |   |
| Module Code              | Arch1114           |                          |                      |                                                                                                                                                                                                                                       |   |
| ECTS Credits             | 7                  |                          |                      |                                                                                                                                                                                                                                       |   |
| SWL (hr/sem)             | 175                |                          |                      |                                                                                                                                                                                                                                       |   |
| Module Level             |                    | UGI                      | Semester of Delivery |                                                                                                                                                                                                                                       | 1 |
| Administering Department |                    | Architecture Engineering | College              | University of Babylon                                                                                                                                                                                                                 |   |

|                                    |                     |                               |        |
|------------------------------------|---------------------|-------------------------------|--------|
| Module Leader                      | Name                | e-mail                        | E-mail |
| Module Leader's Acad. Title        | Professor           | Module Leader's Qualification | Ph.D.  |
| Module Tutor                       | Name (if available) | e-mail                        | E-mail |
| Peer Reviewer Name                 | Name                | e-mail                        | E-mail |
| Scientific Committee Approval Date | 01/06/2023          | Version Number                | 1.0    |

**Relation with other Modules**  
العلاقة مع المواد الدراسية الأخرى

|                      |      |          |  |
|----------------------|------|----------|--|
| Prerequisite module  | None | Semester |  |
| Co-requisites module | None | Semester |  |

**Module Aims, Learning Outcomes and Indicative Contents**  
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                      | <p>The student learns about the most important techniques used in the basics of free drawing and the design process, such as pencils, inking pens, colored wooden pencils, watercolors, poster colors, and oil colors. - Developing the student's ability in the principles of choosing the appropriate formation and color and feeling them.</p> <p>- Exercising the student's eye on perceiving minute details in tangible physical reality and perceiving proportions, movement, shadow, light and color.</p> <p>- Enabling the student to absorb the vocabulary that he will use in other lessons, such as architectural design and architectural drawing. The successful student submits to the second stage no more than ten works of art during the summer vacation, representing: Documentation of some heritage buildings with pencils, inking pens and wooden pens, documentation of some memorials in Baghdad and the provinces, or movable drawings of Iraqi and international buildings. Optional drawing / additional materials that the student registers on according to his desire and for all classes, and the following is emphasized:</p> <p>- Additional assignments for various topics drawn by the student, transferring international, Arab and local paintings using different techniques. Drawing posters and cards for different occasions, training students who want to learn clay techniques in sculpture and ceramics, adding skill in using gypsum in implementing design shapes that are difficult to implement with conventional materials (such as cardboard and cork).</p> |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية | <ol style="list-style-type: none"> <li>1- Acquaint the student with art and architecture</li> <li>2- To familiarize the student with the capabilities of scientific criticism</li> <li>3- Know the basics of architectural design</li> <li>4- Identify the elements of architectural design</li> <li>5- Learn the principles of architectural design</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Indicative Contents<br>المحتويات الإرشادية                | <p>Study theories of art extensively and broadly (8hrs)</p> <p>Learn about artistic practices of all kinds (8hrs)</p> <p>Studying different drawing methods by getting acquainted with watercolors, acrylics and markers (8hrs)</p> <p>Engaging in development courses for artistic faculties in drawing Methods (8hrs)</p> <p>Taking remedial courses in technical planning methods and studying scale drawing (8hrs)</p> <p>Accurately perform the duties assigned to the student and try to repeat them (8hrs)</p> <p>Trying to draw silent life constantly (8hrs)</p> <p>Drawing the largest number of paintings of buildings and architectural structures and discovering the resulting errors (8hrs)</p> <p>Studying technical drawing methods through the computer through different drawing programs (8hrs)</p> <p>Shading by using the lead pencil. (8hrs)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

### Learning and Teaching Strategies

#### استراتيجيات التعلم والتعليم

#### Strategies

The strategies of the curriculum are divided into first: distant goals such as building a generation of architects capable of innovation that has high architectural taste and intermediate goals through building contemporary architectural thought that is able to combine contemporary, preservation and close goals through developing the student's architectural talents and providing them with intellectual and technical tools.

### Student Workload (SWL)

#### الحمل الدراسي للطالب

|                                                                         |     |                                                                     |     |
|-------------------------------------------------------------------------|-----|---------------------------------------------------------------------|-----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطالب خلال الفصل       | 120 | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطالب أسبوعياً       | 8   |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطالب خلال الفصل | 80  | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطالب أسبوعياً | 5.3 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطالب خلال الفصل              | 200 |                                                                     |     |

### Module Evaluation

#### تقييم المادة الدراسية

| As                   | Time/Number     | Weight (Marks)   | Week Due | Relevant Learning Outcome |
|----------------------|-----------------|------------------|----------|---------------------------|
| Formative assessment | Quizzes         |                  |          |                           |
|                      | Assignments     | 2                | 30% (30) | 2, 12                     |
|                      | Projects / Lab. | 3                | 40% (40) | Continuous                |
| Summative assessment | Midterm Exam    | 2 hr             | 30% (30) | 7                         |
|                      |                 |                  |          | LO # 1-7                  |
| Total assessment     |                 | 100% (100 Marks) |          | All                       |

### Delivery Plan (Weekly Syllabus)

#### المنهاج الأسبوعي النظري

### Delivery Plan (Weekly Lab. Syllabus)

#### المنهاج الأسبوعي للمختبر

| Week    | Material Covered                                                                     |
|---------|--------------------------------------------------------------------------------------|
|         | The first part of the curriculum takes Four hours per week during the first semester |
| Week 1  | An Introduction to the material of the free hand and it's types.                     |
| Week 2  | Training the students to use the hand for using the types of lines.                  |
| Week 3  | Training the students to draw the cubes in different directions.                     |
| Week 4  | The engineering shapes: square, rectangle....etc.                                    |
| Week 5  | Shading by using the lead pencil.                                                    |
| Week 6  | Approximation and Abstraction of the free forms.                                     |
| Week 7  | Life Perspective drawing for three shapes or more.                                   |
| Week 8  | Training to use the colors to paint the posters.                                     |
| Week 9  | Drawing Formation or shaping by using the white and black colors.                    |
| Week 10 | The technique used in some materials( Class, Wood, materials...)                     |
| Week 11 | Perspective studying and exercises about the engineering shapes.                     |
| Week 12 | Perspective studying by using different techniques in drawing.                       |
| Week 13 | The techniques used in data drawing and trees.                                       |
| Week 14 | Review                                                                               |
| Week 15 | Review                                                                               |

| Week    | Material Covered                                                                      |
|---------|---------------------------------------------------------------------------------------|
|         | The Second part of the curriculum takes Four hours per week during the first semester |
| Week 1  | Perspective of building with two points.                                              |
| Week 2  | Continued.                                                                            |
| Week 3  | Perspective of inner building.                                                        |
| Week 4  | Perspective of some international building.                                           |
| Week 5  | The stage quick planning.                                                             |
| Week 6  | The stage of pens. Studying the techniques of drawing by pens.                        |
| Week 7  | Planning for some type of trees.                                                      |
| Week 8  | Drawing a perspective for a building with a pen.                                      |
| Week 9  | Studying a Portrait with focusing on the general planning.                            |
| Week 10 | The stage of painting by the wooden pencil.                                           |
| Week 11 | Painting many types of trees with painting a fruitful quarter.                        |
| Week 12 | Painting a perspective with vanished points.                                          |
| Week 13 | Examination and introducing all the previous paintings.                               |
| Week 14 | Review                                                                                |
| Week 15 | Review                                                                                |

#### Learning and Teaching Resources

مصادر التعلم والتدريس

|                   | Text                                          | Available in the Library? |
|-------------------|-----------------------------------------------|---------------------------|
| Required Texts    | Book of free manual drawing<br>Figure Drawing | Yes                       |
| Recommended Texts |                                               | No                        |
| Websites          |                                               |                           |

#### Grading Scheme

مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A - Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                             | C - Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                             | E - Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 - 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |
|                             |                  |                     |           |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

#### Module Information

معلومات المادة الدراسية

| Module Title | Human Rights and democracy | Module Delivery                                                                                                                                                           |
|--------------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Type  | B                          | <input checked="" type="checkbox"/> Theory<br><input checked="" type="checkbox"/> Lecture<br><input checked="" type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial |
| Module Code  | UOBAB1104                  |                                                                                                                                                                           |
| ECTS Credits | 2                          |                                                                                                                                                                           |

|                                    |                          |                                                                                   |                                              |
|------------------------------------|--------------------------|-----------------------------------------------------------------------------------|----------------------------------------------|
| SWL (hr/sem)                       | 50                       | <input type="checkbox"/> Practical<br><input checked="" type="checkbox"/> Seminar |                                              |
| Module Level                       | UGxII                    | Semester of Delivery                                                              | 1                                            |
| Administering Department           | Architecture Engineering | College                                                                           | Type College Code                            |
| Module Leader                      | Name Yousra Adil Humedy  | e-mail                                                                            | E-mail yousry.<br>Alghazali@uobabylon.edu.iq |
| Module Leader's Acad. Title        | Professor                | Module Leader's Qualification                                                     | Ph.D.                                        |
| Module Tutor                       | Name (if available)      | e-mail                                                                            | E-mail                                       |
| Peer Reviewer Name                 | Name                     | e-mail                                                                            | E-mail                                       |
| Scientific Committee Approval Date | 01/06/2023               | Version Number                                                                    | 1.0                                          |

#### Relation with other Modules العلاقة مع المواد الدراسية الأخرى

|                      |      |          |  |
|----------------------|------|----------|--|
| Prerequisite module  | None | Semester |  |
| Co-requisites module | None | Semester |  |

#### Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                      | <p>أن يحدد الطلبة معنى حقوق الإنسان</p> <p>أن يعرف الطلبة جذور ونشأة حقوق الإنسان وتطورها في تاريخ البشرية</p> <p>أن يبين الطلبة حقوق الإنسان في الحضارات القديمة والشرائع السماوية</p> <p>أن يشرح الطلبة حقوق الإنسان في حضارة وادي الرافدين</p> <p>أن يشرح الطلبة حقوق الإنسان في الحضارات القديمة الأخرى</p> <p>أن يعرف الطلبة حقوق الإنسان في الإسلام</p> <p>أن يذكر الطلبة ماهية حقوق الإنسان في الشريعة الإسلامية</p> <p>أن يعرف الطلبة حقوق الإنسان في العصور الوسطى والحديثة</p> <p>أن يذكر الطلبة الاعتراف الدولي المعاصر بحقوق الإنسان على الصعيد الأوربي والأمريكي والأفريقي والإسلامي والعربي</p> <p>أن يحدد الطلبة النقاط التي نص عليها ميثاق الأمم المتحدة</p> <p>أن يشرح الطلبة نشوء المنظمات غير الحكومية ودورها في ميادين حقوق الإنسان</p> |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Indicative Contents<br>المحتويات الإرشادية                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

#### Learning and Teaching Strategies استراتيجيات التعلم والتعليم

|            |  |
|------------|--|
| Strategies |  |
|------------|--|

#### Student Workload (SWL) الحمل الدراسي للطلاب

|                                                                         |    |                                                                     |     |
|-------------------------------------------------------------------------|----|---------------------------------------------------------------------|-----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطلاب خلال الفصل       | 33 | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطلاب أسبوعياً       | 2.2 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطلاب خلال الفصل | 17 | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطلاب أسبوعياً | 1.4 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطلاب خلال الفصل              |    |                                                                     | 50  |

Module Evaluation  
تقييم المادة الدراسية

|                      |                 | Time/Number | Weight (Marks)   | Week Due | Relevant Learning Outcome |
|----------------------|-----------------|-------------|------------------|----------|---------------------------|
| Formative assessment | Quizzes         | .5          | 10% (5)          | 5, 10    | LO #1, 2, 10 and 11       |
|                      | Assignments     | 2           | 10% (5)          | 2, 12    | LO # 3, 4, 6 and 7        |
|                      | Projects / Lab. |             |                  |          |                           |
|                      | Report          | 1           | 10% (10)         | 13       | LO # 5, 8 and 10          |
| Summative assessment | Midterm Exam    | 2 hr        | 10% (30)         | 7        | LO # 1-7                  |
|                      | Final Exam      | 2hr         | 50% (50)         | 16       | All                       |
| Total assessment     |                 |             | 100% (100 Marks) |          |                           |

Delivery Plan (Weekly Syllabus)  
المنهاج الاسبوعي النظري

|         | Material Covered                                                                                                                                                                                       |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Week 1  | مدخل لدراسة حقوق الانسان (مفهوم الحق). - جذور حقوق الانسان وتطورها القانوني. حقوق الانسان في الاسلام.                                                                                                  |
| Week 2  | تعريف حقوق الانسان. - خصائص حقوق الانسان. - مميزات حقوق الانسان                                                                                                                                        |
| Week 3  | صادر حقوق الانسان. - المصادر الدولية لحقوق الانسان: 1- الاعلان العالمي لحقوق الانسان. 2- العهد الدولي الخاص بالحقوق المدنية والسياسية. 3- العهد الدولي الخاص بالحقوق الاقتصادية والاجتماعية والثقافية. |
| Week 4  | مصادر الوطنية لحقوق الانسان. - اعلان حقوق الانسان والمواطن الفرنسي عام 1789. الدساتير والاعلانات الفرنسية التي تلت اعلان حقوق الانسان الفرنسي عام 1789.                                                |
| Week 5  | دستور جمهورية العراق الدائم سنة 2005. - ضمانات حقوق الانسان: الضمانات الدستورية العامة (الاساسية). - الضمانات الدستورية الخاصة. - الضمانات القضائية                                                    |
| Week 6  | ضمانات حقوق الانسان في الاسلام. - دور ميثاق الامم المتحدة في حماية حقوق الانسان. دور المنظمات الاقليمية في حماية حقوق الانسان.                                                                         |
| Week 7  | مستقبل حقوق الانسان - التقدم التكنولوجي وأثره على الحقوق والحريات. - حلقة نقاشية بخصوص الاسئلة والاستفسارات عن مواضيع حقوق الانسان                                                                     |
| Week 8  | مقدمة عن الحرية والديمقراطية. - واقع الحرية الفردية تاريخيا. - دراسة الاطار الفكري والفلسفي حول موضوع الحرية.                                                                                          |
| Week 9  | مفهوم الحقوق والحريات. - مستوى الحريات العامة. - الحقوق والحريات العامة في الشريعة الاسلامية.                                                                                                          |
| Week 10 | انواع الانظمة السياسية من حيث ممارسة السلطة                                                                                                                                                            |
| Week 11 | نشأة الديمقراطية. - صور الديمقراطية. - الديمقراطية المباشرة                                                                                                                                            |
| Week 12 | - الديمقراطية النيابية. - الديمقراطية شبه المباشرة.                                                                                                                                                    |
| Week 13 | المظاهر الرئيسية للديمقراطية شبه المباشرة.                                                                                                                                                             |
| Week 14 | المظاهر الثانوية للديمقراطية شبه المباشرة                                                                                                                                                              |
| Week 15 | مفهوم الانتخاب وتكليفه القانوني. - حلقة نقاشية بخصوص الاسئلة والاستفسارات عن مواضيع الحرية والديمقراطية                                                                                                |

Delivery Plan (Weekly Lab. Syllabus)  
المنهاج الاسبوعي للمختبر

|  | Material Covered |
|--|------------------|
|--|------------------|

Learning and Teaching Resources  
مصادر التعلم والتدريس

|                   | Text | Available in the Library? |
|-------------------|------|---------------------------|
| Required Texts    |      | Yes                       |
| Recommended Texts |      | No                        |
| Websites          |      |                           |

Grading Scheme

مخطط الدرجات

| Group         | Grade         | التقدير | Marks (%) | Definition              |
|---------------|---------------|---------|-----------|-------------------------|
| Success Group | A - Excellent | امتياز  | 90 - 100  | Outstanding Performance |

|                        |                  |                     |         |                                       |
|------------------------|------------------|---------------------|---------|---------------------------------------|
| (50 - 100)             | B - Very Good    | جيد جدا             | 80 - 89 | Above average with some errors        |
|                        | C - Good         | جيد                 | 70 - 79 | Sound work with notable errors        |
|                        | D - Satisfactory | متوسط               | 60 - 69 | Fair but with major shortcomings      |
|                        | E - Sufficient   | مقبول               | 50 - 59 | Work meets minimum criteria           |
| Fail Group<br>(0 – 49) | FX – Fail        | راسب (قيد المعالجة) | (45-49) | More work required but credit awarded |
|                        | F – Fail         | راسب                | (0-44)  | Considerable amount of work required  |
|                        |                  |                     |         |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

## FIRST-YEAR\ SECOND-SEMESTER MODULE DESCRIPTION FORM

| Module Information<br>معلومات المادة الدراسية |                                       |                          |                                                                                                                                                                                                                            |                                              |
|-----------------------------------------------|---------------------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Module Title                                  | Principles of Art and Architecture II |                          | Module Delivery                                                                                                                                                                                                            |                                              |
| Module Type                                   | S                                     |                          | <input checked="" type="checkbox"/> Theory<br>Lecture<br><input type="checkbox"/> Lab<br><input checked="" type="checkbox"/> Tutorial<br><input type="checkbox"/> Practical<br><input checked="" type="checkbox"/> Seminar |                                              |
| Module Code                                   | UOBAB0106021                          |                          |                                                                                                                                                                                                                            |                                              |
| ECTS Credits                                  | 2                                     |                          |                                                                                                                                                                                                                            |                                              |
| SWL (hr/sem)                                  | 50                                    |                          |                                                                                                                                                                                                                            |                                              |
| Module Level                                  |                                       | UGI                      | Semester of Delivery                                                                                                                                                                                                       |                                              |
| Administering Department                      |                                       | Architecture Engineering | College                                                                                                                                                                                                                    | University of Babylon                        |
| Module Leader                                 | Name: DR. HUSSAM JABBAR               |                          | e-mail                                                                                                                                                                                                                     | E-mail<br>Eng.hussam.jabbar@uobabylon.end.iq |
| Module Leader's Acad. Title                   |                                       | Professor                | Module Leader's Qualification                                                                                                                                                                                              |                                              |
|                                               |                                       |                          | Ph.D.                                                                                                                                                                                                                      |                                              |
| Module Tutor                                  | Name (if available)                   |                          | e-mail                                                                                                                                                                                                                     | E-mail<br>Eng.hussam.jabbar@uobabylon.end.iq |
| Peer Reviewer Name                            |                                       | Name                     | e-mail                                                                                                                                                                                                                     | E-mail<br>Eng.hussam.jabbar@uobabylon.end.iq |
| Scientific Committee Approval Date            |                                       | 01/06/2023               | Version Number                                                                                                                                                                                                             | 1.0                                          |

| Relation with other Modules<br>العلاقة مع المواد الدراسية الأخرى |      |          |  |
|------------------------------------------------------------------|------|----------|--|
| Prerequisite module                                              | None | Semester |  |
| Co-requisites module                                             | None | Semester |  |

| Module Aims, Learning Outcomes and Indicative Contents<br>أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                                                                               | The course aims to develop the capabilities of analysis and criticism by establishing the necessary principles and enhancing the study of the concepts of space, mass and form from various aspects, and reviewing the most important critical proposals that dealt with architecture as a hybrid product of science and art and deepening the student's sense at the entrance to his academic life of design elements such as line, direction, color and texture ..... etc. The course also aims to explain in detail the artistic trends in the nineteenth and twentieth centuries and link them with architecture so that the influence of each of these artistic movements on architecture becomes clear. On the contrary, the |

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                           | classical approach began with Greece and Romanism and ended with the new modernity approach in the nineties The last century and the beginning of the second millennium, passing through many artistic movements, including romanticism, impressionism, brutalism, cubism, expressionism, performance, surrealism, constructivism, Russian, and Steele                                                                                            |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية | -1 Acquaint the student with art and architecture<br>-2 To familiarize the student with the capabilities of scientific criticism<br>-3 Kn the principles of architectural design ow the basics of architectural design<br>-4 Identify the elements of architectural design<br>5- Learn                                                                                                                                                            |
| Indicative Contents<br>المحتويات الإرشادية                | Developing the capabilities of the student's artistic (3hrs)<br>architectural creative thinking by developing his architectural information (4hrs)<br>developing his drawing capabilities (4hrs)<br>building his architectural memory by viewing architectural products with pictures and videos. (3hrs)<br>The student's memory is also developed by feeding it with the biographies of international architects and architecture masters (3hrs) |

### Learning and Teaching Strategies

#### استراتيجيات التعلم والتعليم

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategies | The strategies of the curriculum are divided into first: distant goals such as building a generation of architects capable of innovation that has high architectural taste and intermediate goals through building contemporary architectural thought that is able to combine contemporary, preservation and close goals through developing the student's architectural talents and providing them with intellectual and technical tools. |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Student Workload (SWL)

#### الحمل الدراسي للطالب

|                                                                         |    |                                                                     |     |
|-------------------------------------------------------------------------|----|---------------------------------------------------------------------|-----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطالب خلال الفصل       | 33 | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطالب أسبوعياً       | 2.2 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطالب خلال الفصل | 17 | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطالب أسبوعياً | 1.4 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطالب خلال الفصل              | 50 |                                                                     |     |

### Module Evaluation

#### تقييم المادة الدراسية

|                      |                 | Time/Number | Weight (Marks)   | Week Due         | Relevant Learning Outcome |
|----------------------|-----------------|-------------|------------------|------------------|---------------------------|
| Formative assessment | Quizzes         | 1           | 5%               | 3.8              |                           |
|                      | Assignments     | 1           | 5%               | 13.15            |                           |
|                      | Projects / Lab. |             |                  |                  |                           |
|                      | Report          | 10%         | 10%              | 10-15            |                           |
| Summative assessment | Midterm Exam    | 2 hr        | 30%              | 6,11             |                           |
|                      | Final Exam      | 3hr         | 50% (50)         | 16               | All                       |
| Total assessment     |                 |             | 100% (100 Marks) | Total assessment | 100% (100 Marks)          |

### Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري 2

|         | Material Covered                                                                                                                                                             |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Week 1  | Classical direction when the Greeks and Romans, the Renaissance and the seventeenth century                                                                                  |
| Week 2  | The real trend in the second half of the nineteenth century impressionism in the last quarter of the nineteenth century - the artist impressionist Cezanne new Impressionist |
| Week 3  | Brutality in art, Cubism by explaining the work of the artist Picasso                                                                                                        |
| Week 4  | Expressionism in art - Kandinsky future in art                                                                                                                               |
| Week 5  | Performing Surrealism - Salvador Dali, abstract art – Mondrian                                                                                                               |
| Week 6  | Supremacy - Malv Russian Constructivism - my father Steel Movement                                                                                                           |
| Week 7  | General explanation of the relationship of artistic trends in architecture                                                                                                   |
| Week 8  | Romance and architecture: Modern Art Nouveau movement, Gaudi, expressive architecture trends in expressive movement in the new architecture and expressive                   |
| Week 9  | Future architecture, and future expressive in the architecture (link points and separation in Architecture                                                                   |
| Week 10 | destil architecture, Bauhaus                                                                                                                                                 |
| Week 11 | General explanation of the architectural trends in the nineteenth and twentieth and its relationship to architecture                                                         |
| Week 12 | The repercussions of the technical trends in the late modern architecture, and postmodernism and the new modernity (disassembly and folding)                                 |

### Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

|  | Material Covered |
|--|------------------|
|--|------------------|

### Learning and Teaching Resources

مصادر التعلم والتدريس

|                   | Text                                                                                                                                                                                                                                | Available in the Library? |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Required Texts    | مباديء الفن والعمارة                                                                                                                                                                                                                | Yes                       |
| Recommended Texts | عصر اساطين العمارة<br>العمارة وتفسيرها                                                                                                                                                                                              | No                        |
| Websites          | <a href="https://www.academia.edu/3882812/%D9%86%D8%B8%D8%B1%D9%8A%D8%A9_%D8%A7%D9%84%D8%B9%D9%85%D8%A7%D8%B1%D8%A9">https://www.academia.edu/3882812/%D9%86%D8%B8%D8%B1%D9%8A%D8%A9_%D8%A7%D9%84%D8%B9%D9%85%D8%A7%D8%B1%D8%A9</a> |                           |

### Grading Scheme

مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A - Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                             | C - Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                             | E - Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 - 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |
|                             |                  |                     |           |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

Module Information  
معلومات المادة الدراسية

|                                    |                         |                          |                               |                                                                                                                                                                                                                                                       |       |
|------------------------------------|-------------------------|--------------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Module Title                       | Building Construction I |                          |                               | Module Delivery                                                                                                                                                                                                                                       |       |
| Module Type                        | C                       |                          |                               | <div><input checked="" type="checkbox"/> Theory<br/>Lecture<br/><input type="checkbox"/> Lab<br/><input checked="" type="checkbox"/> Tutorial<br/><div><input checked="" type="checkbox"/> Practical<br/><input type="checkbox"/> Seminar</div></div> |       |
| Module Code                        | UOBAB0106022            |                          |                               |                                                                                                                                                                                                                                                       |       |
| ECTS Credits                       | 6                       |                          |                               |                                                                                                                                                                                                                                                       |       |
| SWL (hr/sem)                       | 150                     |                          |                               |                                                                                                                                                                                                                                                       |       |
| Module Level                       |                         | UGI                      | Semester of Delivery          |                                                                                                                                                                                                                                                       | 2     |
| Administering Department           |                         | Architecture Engineering | College                       | University of Babylon                                                                                                                                                                                                                                 |       |
| Module Leader                      | Name: Alaa hadi         |                          | e-mail                        | E-mail<br>eng.alaa.hadi@uobabylon.edu.iq                                                                                                                                                                                                              |       |
| Module Leader's Acad. Title        |                         | Professor                | Module Leader's Qualification |                                                                                                                                                                                                                                                       | Ph.D. |
| Module Tutor                       | Name (if available)     |                          | e-mail                        | E-mail                                                                                                                                                                                                                                                |       |
| Peer Reviewer Name                 |                         | Name                     | e-mail                        | E-mail                                                                                                                                                                                                                                                |       |
| Scientific Committee Approval Date |                         | 01/06/2023               | Version Number                |                                                                                                                                                                                                                                                       | 1.0   |

Relation with other Modules  
العلاقة مع المواد الدراسية الأخرى

|                      |      |          |  |
|----------------------|------|----------|--|
| Prerequisite module  | None | Semester |  |
| Co-requisites module | None | Semester |  |

Module Aims, Learning Outcomes and Indicative Contents  
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                      | The course aims to teach the student, on the various building materials used locally and globally, with a focus on local building materials, and the installation of materials together during the first semester.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية | List the graduate outcomes for the program and indicate where they are documented. If the graduate outcomes are stated differently than those listed in Criterion 2, provide a mapping of the program's graduate outcomes to the Graduate Outcomes (i) through (vii) listed in Criterion 2 of the Accreditation Criteria.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Indicative Contents<br>المحتويات الإرشادية                | <p>Video lectures, presentations (power point), screens, graphics, theoretical lectures, and other means of clarifying the scientific material (11h)</p> <p>the definition of construction materials and local cuisine (identification of factors affecting (10h)</p> <p>the quality of the materials and the method of election (10h)</p> <p>construction concepts , the inlay of its walls and partitions floor foundations and ceilings (12h)</p> <p>construction use of brick, types of bric the joints of the the process of construction leveling mortaring (10h)</p> <p>construction using stones, the classification of the stones, types of stone walls, the joints of the stone blocks (12h)</p> <p>construction concrete blocks (12h)</p> <p>wood their uses in building construction- carrier walls and wooden framing (10h)</p> |

Learning and Teaching Strategies  
استراتيجيات التعلم والتعليم

|            |                                            |
|------------|--------------------------------------------|
| Strategies | 1. Graduating highly qualified architects. |
|------------|--------------------------------------------|

2. Building the leadership qualities of its graduates by teaching them how to lead, solve construction problems, and the ability to choose appropriate construction details and materials.
3. Instilling a spirit of imagination in graduates and a commitment to acquiring knowledge and serving the community.
4. Contribute to project ideas, conduct research for the benefit and development of society, and involve students to work on projects that are under implementation.
5. Taking care of the outstanding students and encouraging them to use their skills.
- 6  
Focusing on correct scientific, academic, professional and high ethical standards within the university campus. and encourage sharing

#### Student Workload (SWL)

الحمل الدراسي للطالب

|                                                                         |     |                                                                     |     |
|-------------------------------------------------------------------------|-----|---------------------------------------------------------------------|-----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطالب خلال الفصل       | 63  | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطالب أسبوعياً       | 4.2 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطالب خلال الفصل | 87  | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطالب أسبوعياً | 5.8 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطالب خلال الفصل              | 150 |                                                                     |     |

#### Module Evaluation

تقييم المادة الدراسية

|                      |                 | Time/Number | Weight (Marks)   | Week Due | Relevant Learning Outcome |
|----------------------|-----------------|-------------|------------------|----------|---------------------------|
| Formative assessment | Quizzes         |             |                  |          | LO #1, 2, 10 and 11       |
|                      | Assignments     | 8           | 10% (10)         | 5, 10    |                           |
|                      | Projects / Lab. |             |                  |          |                           |
|                      | Report          | 1           | 10% (10)         | 13       | LO # 5, 8 and 10          |
| Summative assessment | Midterm Exam    | 2 hr        | 30% (10)         | 7        | LO # 1-7                  |
|                      | Final Exam      | 2hr         | 50% (50)         | 16       | All                       |
| Total assessment     |                 |             | 100% (100 Marks) |          |                           |

#### Delivery Plan (Weekly Syllabus)

المنهاج الأسبوعي النظري

#### Delivery Plan (Weekly Lab. Syllabus)

المنهاج الأسبوعي للمختبر

|             | Material Covered                                                                                                                                        |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Week 1      | the definition of construction materials and local cuisine (identification of factors affecting the quality of the materials and the method of election |
| Week 2      | construction concepts , the inlay of its walls and partitions floor foundations and ceilings                                                            |
| Week 3 -4-5 | construction use of brick, types of bric the joints of the the process of construction leveling mortaring                                               |
| Week 6-7    | construction using stones, the classification of the stones, types of stone walls, the joints of the stone blocks                                       |
| Week 8-9    | construction concrete blocks                                                                                                                            |
| Week 10     | wood their uses in building construction- carrier walls and wooden framing                                                                              |
| Week 11     | the iron and steel (versatility in construction (structural characteristics, structural systems                                                         |

#### Learning and Teaching Resources

مصادر التعلم والتدريس

|  | Text | Available in the Library? |
|--|------|---------------------------|
|--|------|---------------------------|

|                   |                                                                                                                                                                                               |     |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Required Texts    | Fundamentals of Electric Circuits, C.K. Alexander and M.N.O Sadiku, McGraw-Hill Education                                                                                                     | Yes |
| Recommended Texts | DC Electrical Circuit Analysis: A Practical Approach<br>Copyright Year: 2020, dissidents.                                                                                                     | No  |
| Websites          | <a href="https://www.coursera.org/browse/physical-science-and-engineering/electrical-engineering">https://www.coursera.org/browse/physical-science-and-engineering/electrical-engineering</a> |     |

#### Grading Scheme

مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A - Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                             | C - Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                             | E - Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 - 49)      | FX – Fail        | راسب (فيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |
|                             |                  |                     |           |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

#### Module Information

معلومات المادة الدراسية

|                                    |                         |                          |                               |                                                                                                                                                                                                                                 |       |
|------------------------------------|-------------------------|--------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Module Title                       | Mathematics II          |                          |                               | Module Delivery                                                                                                                                                                                                                 |       |
| Module Type                        | B                       |                          |                               | <div><input checked="" type="checkbox"/> Theory<br/>Lecture<br/><input type="checkbox"/> Lab<br/><input type="checkbox"/> Tutorial<br/><input type="checkbox"/> Practical<br/><input checked="" type="checkbox"/> Seminar</div> |       |
| Module Code                        | UOBAB0106023            |                          |                               |                                                                                                                                                                                                                                 |       |
| ECTS Credits                       | 2                       |                          |                               |                                                                                                                                                                                                                                 |       |
| SWL (hr/sem)                       | 50                      |                          |                               |                                                                                                                                                                                                                                 |       |
| Module Level                       |                         | UGx11 1                  | Semester of Delivery          |                                                                                                                                                                                                                                 | 2     |
| Administering Department           |                         | Architecture Engineering | College                       | University of Babylon                                                                                                                                                                                                           |       |
| Module Leader                      | Fatimah Fahem Alkhafaji |                          | e-mail                        | mat.fatimah.fahem@uobabylon.edu.iq                                                                                                                                                                                              |       |
| Module Leader's Acad. Title        |                         | Assist.Professor         | Module Leader's Qualification |                                                                                                                                                                                                                                 | Ph.D. |
| Module Tutor                       | Name (if available)     |                          | e-mail                        | E-mail                                                                                                                                                                                                                          |       |
| Peer Reviewer Name                 |                         | Name                     | e-mail                        | E-mail                                                                                                                                                                                                                          |       |
| Scientific Committee Approval Date |                         | 01/06/2023               | Version Number                |                                                                                                                                                                                                                                 | 1.0   |

#### Relation with other Modules

العلاقة مع المواد الدراسية الأخرى

|                      |      |          |  |
|----------------------|------|----------|--|
| Prerequisite module  | None | Semester |  |
| Co-requisites module | None | Semester |  |

### Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                      | It is to give the student a general idea of mathematics as basic principles for a student in the College of Engineering, with the addition of some engineering applications that benefit the architecture student in his advanced stages                                                                                                                                                                                                                                                                                  |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية | .A1- Studying the Cartesian axes and the basics of analytical geometry (<br>.A 2- Learn a set of ways to draw functions using different techniques<br>A3 - Using the concept of purpose, approximation, and approximation in<br>.consolidating and understanding the concept of mathematical differentiation<br>A 4- Using the concept of purpose to explain the concept of differentiation<br>.and derivatives<br>A5 - Application of quantitative and numerical methods for the purpose of solving engineering problems |
| Indicative Contents<br>المحتويات الإرشادية                | 1. Conic sections (4hr)<br>2. Introduction of Integration (2hr)<br>3. Integration of ordinary functions (2hr)<br>4. indefinite integrations (2hr)<br>5. Definite integrations (2hr)<br>6. Transcendental functions (logarithm and exponential functions : derivatives and graphs (6hr)<br>7. Applications of integration (4hr)<br>8. Techniques of integration (6hr)<br>9. Overview (2hr)                                                                                                                                 |

### Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

|            |                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategies | Type something like: The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering type of simple experiments involving some sampling activities that are interesting to the students. |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Student Workload (SWL)

الحمل الدراسي للطالب

|                                                                         |    |                                                                     |     |
|-------------------------------------------------------------------------|----|---------------------------------------------------------------------|-----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطالب خلال الفصل       | 33 | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطالب أسبوعياً       | 2.2 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطالب خلال الفصل | 17 | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطالب أسبوعياً | 1.4 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطالب خلال الفصل              | 50 |                                                                     |     |

### Module Evaluation

تقييم المادة الدراسية

|                      |                 | Time/Number | Weight (Marks)   | Week Due | Relevant Learning Outcome |
|----------------------|-----------------|-------------|------------------|----------|---------------------------|
| Formative assessment | Quizzes         | .5          | 10% (5)          | 5, 10    | LO #1, 2, 10 and 11       |
|                      | Assignments     | 2           | 10% (10)         | 2, 12    | LO # 3, 4, 6 and 7        |
|                      | Projects / Lab. |             |                  |          |                           |
|                      | Report          | 1           | 10% (10)         | 13       | LO # 5, 8 and 10          |
| Summative assessment | Midterm Exam    | 2 hr        | 10% (25)         | 7        | LO # 1-7                  |
|                      | Final Exam      | 2hr         | 50% (50)         | 16       | All                       |
| Total assessment     |                 |             | 100% (100 Marks) |          |                           |

### Delivery Plan (Weekly Syllabus)

المنهاج الأسبوعي النظري

|         | Material Covered                                                                       |
|---------|----------------------------------------------------------------------------------------|
| Week 1  | Conic sections                                                                         |
| Week 2  | Conic sections                                                                         |
| Week 3  | Introduction of Integration                                                            |
| Week 4  | Integration of ordinary functions                                                      |
| Week 5  | indefinite integrations                                                                |
| Week 6  | Definite integrations                                                                  |
| Week 7  | Transcendental functions (logarithm and exponential functions : derivatives and graphs |
| Week 8  | Transcendental functions (logarithm and exponential functions : derivatives and graphs |
| Week 9  | Transcendental functions (logarithm and exponential functions : derivatives and graphs |
| Week 10 | Applications of integration                                                            |
| Week 11 | Applications of integration                                                            |
| Week 12 | Techniques of integration                                                              |
| Week 13 | Techniques of integration                                                              |
| Week 14 | Techniques of integration                                                              |
| Week 15 | Overview                                                                               |

### Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

|        | Material Covered                                          |
|--------|-----------------------------------------------------------|
| Week 1 | Lab 1: Introduction to Agilent VEE and PSPICE             |
| Week 2 | Lab 2: Thévenin's / Norton's Theorem and Kirchhoff's Laws |
| Week 3 | Lab 3: First-Order Transient Responses                    |
| Week 4 | Lab 4: Second-Order Transient Responses                   |
| Week 5 | Lab 5: Frequency Response of RC Circuits                  |
| Week 6 | Lab 6: Frequency Response of RLC Circuits                 |
| Week 7 | Lab 7: Filters                                            |

### Learning and Teaching Resources

مصادر التعلم والتدريس

|                   | Text                                                                                                                                                                                          | Available in the Library? |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Required Texts    | Fundamentals of Electric Circuits, C.K. Alexander and M.N.O Sadiku, McGraw-Hill Education                                                                                                     | Yes                       |
| Recommended Texts | DC Electrical Circuit Analysis: A Practical Approach<br>Copyright Year: 2020, dissidents.                                                                                                     | No                        |
| Websites          | <a href="https://www.coursera.org/browse/physical-science-and-engineering/electrical-engineering">https://www.coursera.org/browse/physical-science-and-engineering/electrical-engineering</a> |                           |

### Grading Scheme

مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A - Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                             | C - Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                             | E - Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 - 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |

### Module Information

معلومات المادة الدراسية

|                                    |                               |                          |                               |                                                                                                                                                                                                                            |       |
|------------------------------------|-------------------------------|--------------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Module Title                       | Principle of Computer Graphic |                          |                               | Module Delivery                                                                                                                                                                                                            |       |
| Module Type                        | <u>B</u>                      |                          |                               | <input checked="" type="checkbox"/> Theory<br>Lecture<br><input checked="" type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial<br><input type="checkbox"/> Practical<br><input checked="" type="checkbox"/> Seminar |       |
| Module Code                        | Arch2415                      |                          |                               |                                                                                                                                                                                                                            |       |
| ECTS Credits                       | <u>6</u>                      |                          |                               |                                                                                                                                                                                                                            |       |
| SWL (hr/sem)                       | <u>150</u>                    |                          |                               |                                                                                                                                                                                                                            |       |
| Module Level                       |                               | UGI                      | Semester of Delivery          |                                                                                                                                                                                                                            | 2     |
| Administering Department           |                               | Architecture Engineering | College                       | University of Babylon                                                                                                                                                                                                      |       |
| Module Leader                      | Dr. Hussam Jabbar Abass       |                          | e-mail                        |                                                                                                                                                                                                                            |       |
| Module Leader's Acad. Title        |                               | Professor                | Module Leader's Qualification |                                                                                                                                                                                                                            | Ph.D. |
| Module Tutor                       | Name (if available)           |                          | e-mail                        | E-mail                                                                                                                                                                                                                     |       |
| Peer Reviewer Name                 |                               | Name                     | e-mail                        | E-mail                                                                                                                                                                                                                     |       |
| Scientific Committee Approval Date |                               | 01/06/2023               | Version Number                |                                                                                                                                                                                                                            | 1.0   |

Relation with other Modules

العلاقة مع المواد الدراسية الأخرى

|                      |      |          |  |
|----------------------|------|----------|--|
| Prerequisite module  | None | Semester |  |
| Co-requisites module | None | Semester |  |

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                      | Training provides a thorough grounding in AutoCAD. On completing the course you will be able to produce accurate 2D drawings .In this course beginner AutoCAD class, you'll learn basic drawing and modifying techniques for drafting and technical drawing, using AutoCAD to create drawings that can be used to build and real objects both mechanical and architectural. We'll cover basic methods of printing and plotting layouts and sheets, working between model space and paper space, and scaling drawings through viewports. Learn techniques for inserting blocks, making text, dimensioning drawings, and working with layers and templates.                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية | Upon successful completion of this course, students are able to do the following. <ul style="list-style-type: none"> <li>• Demonstrate knowledge of typical drafted drawings such as plans, sections, elevations, reflected ceiling plans and construction details using Autodesk's AutoCAD as a drafting tool.</li> <li>• Demonstrate system setup of Autodesk's AutoCAD and Revit software</li> <li>• Use AutoCAD commands to create standard architectural drawings.</li> <li>• Use AutoCAD commands to add communicative details to a drawing</li> <li>• Use AutoCAD to store and retrieve custom blocks and software generated blocks for repeated use.</li> <li>• Create various line types and line weights using various AutoCAD and print settings.</li> <li>• Create 3D views from the information provided in a 2D drawing.</li> <li>• Create a multi-page architectural drawing set.</li> <li>• Create a multi-page PDF file of the above to send to a prospective client.</li> <li>• Analyze &amp; discuss an architectural drawing set showing various views of the structure.</li> </ul> |
| Indicative Contents<br>المحتويات الإرشادية                | INDICATIVE CONTENT INCLUDES THE FOLLOWING.<br><u>Part A – 2D Drawings</u><br>analyze and draw any engineering drawing 2D using the facilities that the AutoCAD program produce such as using basic elements (line, circle,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | rectangular...etc.). [15 hrs]<br>Modify any drawing using the tools (move, copy, mirror, offset, array, etc.) [12 hrs]<br>add the dimensions to the drawing [3 hrs]<br><b>Part B – 3D drawings</b> <ul style="list-style-type: none"> <li>analyze and draw any engineering drawing 3D using the facilities that the AutoCAD program produce such as using basic elements [6 hrs]</li> <li>Learn to modify, edit the 3D drawing (move, copy, mirror...etc.). [6 hrs]</li> <li>Learn to add dimensions to the 3D drawings. [3 hrs]</li> </ul> |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Learning and Teaching Strategies<br>استراتيجيات التعلم والتعليم |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategies                                                      | <ul style="list-style-type: none"> <li>Decide on a CAD field. CAD is used in everything from manufacturing, mechanical design, electronics, 3D printing, architecture, and more. ...</li> <li>Watch online tutorials. ...</li> <li>Take a class. ...</li> <li>Practice CAD using objects around your house. ...</li> <li>Move on to harder projects. ...</li> <li>Ask questions and search for help. ...</li> <li>Teach others.</li> </ul> |

| Student Workload (SWL)<br>الحمل الدراسي للطلاب                          |    |                                                                    |     |
|-------------------------------------------------------------------------|----|--------------------------------------------------------------------|-----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطلاب خلال الفصل       | 48 | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطلاب أسبوعيا       | 3.2 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطلاب خلال الفصل | 27 | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطلاب أسبوعيا | 1.8 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطلاب خلال الفصل              | 75 |                                                                    |     |

| Module Evaluation<br>تقييم المادة الدراسية |                                         |             |                  |          |                           |
|--------------------------------------------|-----------------------------------------|-------------|------------------|----------|---------------------------|
|                                            |                                         | Time/Number | Weight (Marks)   | Week Due | Relevant Learning Outcome |
| Formative assessment                       | الاختبارات<br>Quizzes                   | 1           | 14% (14)         | 5, 10    | LO #1, 2, 10 and 11       |
|                                            | Projects                                |             | 8% (8)           |          | LO # 5, 8 and 10          |
|                                            | المختبر<br>Lab                          |             | 8% (8)           |          | LO # 5, 8 and 10          |
|                                            | واجبات بيتية<br>online assignment       |             |                  |          |                           |
|                                            | واجبات داخل الكلية<br>onsite assignment |             | 10% (10)         |          | LO # 5, 8 and 10          |
|                                            | Report                                  |             |                  |          |                           |
| Summative assessment                       | حلقات دراسية                            |             |                  |          |                           |
|                                            | Midterm Exam                            | 2 hr        | 10% (10)         | 7        | LO # 1-7                  |
|                                            | Final Exam                              | 3hr         | 50% (50)         | 16       | All                       |
| Total assessment                           |                                         |             | 100% (100 Marks) |          |                           |

| Delivery Plan (Weekly Lab. Syllabus)<br>المنهاج الاسبوعي للمختبر |                                                                                                   |
|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
|                                                                  | Material Covered                                                                                  |
| Week 1                                                           | <b>INTRODUCTION TO AUTOCAD</b> <ul style="list-style-type: none"> <li>Starting AutoCAD</li> </ul> |

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | <ul style="list-style-type: none"> <li>• AutoCAD Screen Components (Drawing Area, Command Window, Navigation bar and Status bar)</li> <li>• Invoking Commands in AutoCAD (Keyboard, Ribbon Application Menu, Tool Palettes, Menu Bar, Toolbar and Shortcut Menu)</li> <li>• AutoCAD Dialog Boxes</li> <li>• Starting a New Drawing (Open a Drawing, Start from, Scratch Use a Template and Use a Wizard)</li> <li>• Saving Your Work</li> <li>• Save Drawing as Dialog box (Using the Drawing Recovery Manager to Recover Files)</li> <li>• Closing a Drawing</li> <li>• Opening an Existing Drawing (Opening an Existing Drawing Using the Select File Dialog Box, Opening an Existing Drawing Using the Start up Dialog Box and, Opening an Existing Drawing Using the Drag and Drop Method)</li> <li>• Quitting AutoCAD</li> <li>• Creating and Managing Workspaces (Creating a New Workspace, Modifying the Workspace Settings, Autodesk Exchange and, Home)</li> </ul>                                                                                                                                                                                                                   |
| Week 2 | <b>GETTING STARTED WITH AUTOCAD</b> <ul style="list-style-type: none"> <li>• Dynamic Input Mode (Enable Pointer Input, Enable Dimension Input where possible, Show command prompting and command input near the crosshairs and, Drafting Tooltip Appearance)</li> <li>• Drawing Lines in AutoCAD (The Close Option and, The Undo Option)</li> <li>• Invoking tools Using Dynamic INPUT/Command Prompt Coordinate Systems (Absolute Coordinate System, Relative Coordinate System, Relative Polar Coordinates, Direct Distance Entry, Erasing Objects and, Cancelling and Undoing a Command)</li> <li>• Object Selection Methods (Window Selection, Window Crossing Method, Drawing a Circle and, BASIC Display Commands)</li> <li>• Setting Units Type and Precision (Specifying the Format and, Specifying the Angle Format)</li> <li>• SETTING the Limits OF A DRAWING</li> </ul>                                                                                                                                                                                                                                                                                                           |
| Week 3 | <b>STARTING WITH ADVANCED SKETCHING</b><br>( Drawing Arcs, Drawing Rectangles, Drawing Ellipses, Drawing Regular Polygon, Drawing Polylines, Placing Points, Drawing Infinite Lines and, Writing a Single Line Text)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Week 4 | <b>WORKING WITH DRAWING AIDS</b> <ul style="list-style-type: none"> <li>• Introduction</li> <li>• Understanding the Concept and use of LAYERS (Advantages of Using Layers)</li> <li>• Working with Layers (Creating New Layers, Making a Layer Current, Controlling the Display of Layers and Deleting Layers)</li> <li>• Object Properties (Changing the Color, Changing the Line type, Changing the Line weight, Changing the Plot Style, Properties Palette and, Quick Properties Palette)</li> <li>• Drafting Settings dialog box (Setting Grid, Setting Snap and, Snap Type)</li> <li>• Drawing Straight Lines using the Ortho Mode</li> <li>• Working with Object Snaps (Auto Snap, Endpoint, Midpoint, Nearest, Centre, Tangent, Quadrant, Intersection, Apparent Intersection, Perpendicular, Node, Insertion, Snap to None, Parallel, Extension, From, Midpoint between 2 Points, Temporary Tracking Point, Combining Object Snap Modes)</li> <li>• Running Object Snap Mode (Overriding the Running Snap and, Cycling through Snaps)</li> <li>• Using Auto Tracking (Object Snap Tracking, Polar Tracking and, Auto Track Settings)</li> <li>• Function and Control Keys</li> </ul> |
| Week 5 | <b>EDITING SKETCHED OBJECTS-I</b><br>Editing Sketches<br>Moving the Sketched Objects<br>Copying the Sketched Objects (Creating Multiple Copies, Creating a Single Copy, Offsetting Sketched Objects, Rotating Sketched Objects, Scaling the Sketched Objects, Filletting the Sketches, Chamfering the Sketches, Trimming the Sketched Objects, Extending the Sketched Objects, Stretching the Sketched Objects and, Lengthening the Sketched Objects)<br>Arraying the Sketched Objects (Rectangular Array, Polar Array and, Path Array)<br>Mirroring the Sketched objects (Text Mirroring)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Week 6 | <b><u>EDITING SKETCHED OBJECTS-II</u></b><br><b>Introduction to Grips</b><br><b>Types of Grips (Editing a Polyline by Using Grips, Editing Gripped Objects, Changing</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | <p><b>the Properties Using the PROPERTIES Pale, Matching the Properties of Sketched Objects and, Cycling Through Selection)</b></p> <p><b>Managing Contents Using the Design enter (Autodesk Seek design content Link, Displaying Drawing Properties, Basic Display Options, Redrawing the Screen and, Regenerating Drawings )</b></p> <p><b>Zooming Drawings (Real-time Zooming, All Option, Centre Option, Extents Option, Dynamic Option, Previous Option, Window Option, Scale Option, Object Option and, Zoom In and Out)</b></p> <p><b>Panning Drawings (Panning in Real time)</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Week 7 | <p><b>CREATING TEXT AND TABLES</b></p> <ul style="list-style-type: none"> <li>• Annotative Objects</li> <li>• Annotation Scale (Assigning Annotative Property and Annotation Scales and ,Customizing Annotation Scale)</li> <li>• Multiple Annotation Scales (Assigning Multiple Annotation Scales Manually and, Assigning Multiple Annotation Scales Automatically)</li> <li>• Controlling the Display of Annotative objects</li> <li>• Creating Text (Writing Single Line)</li> <li>• Text Entering Special Characters</li> <li>• Creating Multiline Text (Text Window and,Text Editor Tab)</li> <li>• Editing Text (Editing Text Using the DDEDIT Command, Editing Text Using the Properties Palette and, Modifying the Scale of the Text)</li> <li>• Inserting Table in the Drawing (Table style Area, Insert options Area, Insertion behaviour Area, Column and row settings Area and, Set cell styles Area)</li> <li>• Creating a New Table Style (Starting table Area, General Area, Cell styles Area, Setting a Table Style as Current, Modifying a Table Style, Modifying Tables, Substituting Fonts, Specifying an Alternate Default Font, Creating Text Styles, Determining Text Height and, Creating Annotative text)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Week 8 | <p><b>BASIC DIMENSIONING, GEOMETRIC DIMENSIONING, AND TOLERANCING</b></p> <ul style="list-style-type: none"> <li>• Need for Dimensioning</li> <li>• Dimensioning in AutoCAD Fundamental</li> <li>• Dimensioning Terms (Dimension Line, Dimension Text, Arrowheads Extension Lines, Leader, Centre Mark and Centrelines, Alternate Units, Tolerances, Limits, Associative Dimensions, Definition Points, Annotative Dimensions, Selecting Dimensioning Commands, Using the Ribbon and the Toolbar, Using the Command Line and, Dimensioning a Number of Objects Together)</li> <li>• Creating Linear Dimensions ( DIMLINEAR Command Options, Creating Aligned Dimensions, Creating Arc Length Dimensions, Creating Rotated Dimensions, Creating Baseline Dimensions, Creating Continued Dimensions, Creating Angular Dimensions, Dimensioning the Angle between Two Nonparallel Lines and, Dimensioning the Angle of an Arc)</li> <li>• Angular Dimensioning of Circles (Angular Dimensioning based on Three Points, Creating Diameter Dimensions, Creating Radius Dimensions, Creating Jogged Linear Dimensions, Creating Ordinate Dimensions and, Maintaining Equal Spacing between Dimensions )</li> <li>• Creating Inspection Dimensions (Inspection Label and, Dimension Value)</li> <li>• Working with True Associative Dimensions (Inspection Rate, Removing the Dimension Associatively, Converting a Dimension into a True Associative Dimension, Drawing Leaders, Multileader, Adding leaders to existing Multileader and, Removing Leaders from Existing Multileader)</li> <li>• Aligning Multi-leaders (Distribute, Make leader segments Parallel, Specify Spacing and, Use current spacing)</li> <li>• Geometric Dimensioning and Tolerance</li> <li>• Geometric Characteristics and Symbols</li> <li>• Adding Geometric Tolerance (Feature Control Frame, Geometric Characteristics Symbol, Tolerance Value and Tolerance Zone Descriptor , Material Condition Modifier and, Datum)</li> <li>• Complex Feature Control Frames (Composite Position Tolerance, Projected Tolerance Zone and, Creating Annotative Dimensions, Tolerances, Leaders, and Multi-leaders)</li> </ul> |
| Week 9 | <p><b>EDITING DIMENSIONS</b></p> <ul style="list-style-type: none"> <li>• Editing Dimensions Using Editing Tools (Editing Dimensions by Stretching, Editing Dimensions by Trimming and Extending, Flipping Dimension Arrow, Modifying the</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | Dimensions, Editing the Dimension Text, Updating Dimensions, Editing Dimensions with Grips, Editing Dimensions using the Properties Palette, Properties Palette (Dimension), Properties Palette (Multileader) and, Model Space and Paper Space Dimensioning)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Week 10 | <b>DIMENSION STYLES, MULTILEADER STYLES, AND SYSTEM VARIABLES</b><br>(Using Styles and Variables to Control Dimensions, Creating and Restoring Dimension Styles, New Dimension Style dialog box, Controlling the Dimension Text Format, Fitting Dimension Text and Arrowheads, Formatting Primary Dimension Units, Formatting Alternate Dimension Units, Formatting the Tolerances, Creating and Restoring Multileader Styles and, Modify Multileader Style dialog box )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Week 11 | <b>MODEL SPACE VIEWPORTS, PAPER SPACE VIEWPORTS, AND LAYOUTS</b> <ul style="list-style-type: none"> <li>• Model Space and Paper Space/Layouts</li> <li>• Model Space Viewports (Tiled Viewports) (Creating Tiled Viewports)</li> <li>• Making a Viewport Current</li> <li>• Joining Two Adjacent Viewports</li> <li>• Paper space viewports (Floating Viewports) (Creating Floating Viewports, Creating Rectangular Viewports, Creating Polygonal Viewports and, Converting an Existing Closed Object into a Viewport</li> <li>• Temporary Model Space</li> <li>• Editing Viewports (Controlling the Display of Objects in Viewports , Locking the Display of Objects in Viewports, Controlling the Display of Hidden Lines in Viewports, Clipping Existing Viewports, Maximizing Viewports, Inserting Layouts, Inserting a Layout Using the Wizard, Defining Page Settings and, Controlling the Display of Annotative Objects in Viewports)</li> </ul> |
| Week 12 | EXAM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Week 13 | <b>PLOTTING DRAWINGS</b> <ul style="list-style-type: none"> <li>• Plotting Drawings in AutoCAD</li> <li>• Plotting Drawings Using the Plot Dialog Box (Page setup Area, Printer/plotter Area, Paper size Area, Number of copies Area, Plot area, Plot offset (origin set to printable area) Area, Plot scale Area, Plot style table (pen assignments) Area, Shaded viewport options Area, Plot options Area and, Preview)</li> <li>• Adding Plotters ( The Plotter Manager Tool)</li> <li>• Using Plot Styles (Adding a Plot Style)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                          |
| Week 14 | <b>HATCHING DRAWINGS</b> <ul style="list-style-type: none"> <li>• Hatching (Hatch Patterns and, Hatch Boundary)</li> <li>• Hatching Drawings Using the Hatch Tool</li> <li>• Panels in the Hatch Creation Tab (Boundaries Panel, Pattern Panel, Properties Panel, Origin Panel, Options Panel, Match Properties and, Setting the Parameters for Gradient Pattern)</li> <li>• Creating Annotative Hatch</li> <li>• Hatching the Drawing Using the Tool Palettes (Drag and Drop Method and, Select and Place Method)</li> <li>• Hatching Around Text, Dimensions, and Attributes</li> </ul>                                                                                                                                                                                                                                                                                                                                                               |
| Week 15 | <b>WORKING WITH BLOCKS</b> <ul style="list-style-type: none"> <li>• The Concept of Blocks (Advantages of Using Blocks, Drawing Objects for Blocks and, Converting Entities into a Block)</li> <li>• Inserting Blocks</li> <li>• Creating and Inserting Annotative Blocks (Block Editor)</li> <li>• Adding Blocks in Tool Palettes (Drag and Drop Method, Modifying Existing Blocks in the Tool Palettes, Layers, Colors, Line types, and Line weights for Blocks and, Nesting of Blocks)</li> <li>• Creating Drawing Files using the Write Block Dialog Box (Exploding Blocks Using the XPLODE Command, Renaming Blocks, Deleting Unused Blocks and, Editing Constraints to Blocks)</li> </ul>                                                                                                                                                                                                                                                          |

### Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

Material Covered

### Learning and Teaching Resources

مصادر التعلم والتدريس

Text

Available in the

|                   |                                                                                                            |          |
|-------------------|------------------------------------------------------------------------------------------------------------|----------|
|                   |                                                                                                            | Library? |
| Required Texts    | • User's Reference Volume II Published By: Autodesk, Inc.                                                  | No       |
| Recommended Texts | • Autodesk 3ds Max 2025 Basics Guide By Kelly L. Murdock<br>• Autodesk 3ds Max 2022 Fundamentals By ASCENT | No       |
| Websites          |                                                                                                            |          |

#### Grading Scheme

مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A – Excellent    | امتياز              | 90 – 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 – 89   | Above average with some errors        |
|                             | C – Good         | جيد                 | 70 – 79   | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 – 69   | Fair but with major shortcomings      |
|                             | E – Sufficient   | مقبول               | 50 – 59   | Work meets minimum criteria           |
| Fail Group<br>(0 – 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

#### Module Information

معلومات المادة الدراسية

|                                    |                           |                          |                                                                                                                                                                                                                                          |                                        |      |
|------------------------------------|---------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------|
| Module Title                       | English language I        |                          | Module Delivery                                                                                                                                                                                                                          |                                        |      |
| Module Type                        | <u>B</u>                  |                          | <input checked="" type="checkbox"/> Theory<br><input checked="" type="checkbox"/> Lecture<br><input type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial<br><input type="checkbox"/> Practical<br><input type="checkbox"/> Seminar |                                        |      |
| Module Code                        | <u>UOBABb1101</u>         |                          |                                                                                                                                                                                                                                          |                                        |      |
| ECTS Credits                       | <u>2</u>                  |                          |                                                                                                                                                                                                                                          |                                        |      |
| SWL (hr/sem)                       | <u>50</u>                 |                          |                                                                                                                                                                                                                                          |                                        |      |
| Module Level                       |                           | UGx11                    | Semester of Delivery                                                                                                                                                                                                                     |                                        | 2    |
| Administering Department           |                           | Architecture Engineering | College                                                                                                                                                                                                                                  | University of Babylon                  |      |
| Module Leader                      | Professor: Muayad Mingher |                          | e-mail                                                                                                                                                                                                                                   | eng. muayad mingher@uobabylon. edu. Iq |      |
| Module Leader’s Acad. Title        |                           | Professor                | Module Leader’s Qualification                                                                                                                                                                                                            |                                        | M.A. |
| Module Tutor                       | Name (if available)       |                          | e-mail                                                                                                                                                                                                                                   | eng. muayad mingher@uobabylon. edu. Iq |      |
| Peer Reviewer Name                 |                           | Name                     | e-mail                                                                                                                                                                                                                                   | eng. muayad mingher@uobabylon. edu. Iq |      |
| Scientific Committee Approval Date |                           | 01/06/2023               | Version Number                                                                                                                                                                                                                           |                                        | 1.0  |

#### Relation with other Modules

العلاقة مع المواد الدراسية الأخرى

|                      |      |          |  |
|----------------------|------|----------|--|
| Prerequisite module  | None | Semester |  |
| Co-requisites module | None | Semester |  |

#### Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                      | The course aims to develop the student's ability to deal with the English language in the areas of pronunciation, dialogue, and principles of writing. As the student had received in his previous studies in the secondary stage a wide range of principles in English grammar, pronunciation and reading, but he did not have the opportunity Sufficient to develop his other language skills, which cannot be enriched through practice and training. Therefore, emphasis is placed on reading a, training on new terms, how to deal with them, spelling and dictation laws in English, and the principles of writing through writing some short passages. In an attempt to bring the topic closer to the architectural study of the student, focus on reading and writing subjects of an architectural nature, and train the student on the student on the architectural terminology correctly and identify them when reading the architectural texts in an attempt to keep him away from the common error in direct translation, in which texts lose their literary, intellectual and conceptual value. |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية | <ol style="list-style-type: none"> <li>1. Increase the students' awareness of correct usage of English grammar in writing and speaking</li> <li>2. Improve their speaking ability in English both in terms of fluency and comprehensibility</li> <li>3. Give oral presentations and receive feedback on their performance</li> <li>4. Increase their reading speed and comprehension. Students will improve their reading fluency skills through extensive reading.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Indicative Contents<br>المحتويات الإرشادية                | <ol style="list-style-type: none"> <li>1. Developing students' skills in reflective practice and creative thinking.</li> <li>2. Growing the students' abilities in building sentences.</li> <li>3. Knowing some significant aspects of British culture while improving the students' English language skills.</li> <li>4. Improving accuracy in reading and writing.</li> <li>5. Using a wider range of vocabulary to express their views.</li> <li>6. Students will be required to participate in activities.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

#### Learning and Teaching Strategies استراتيجيات التعلم والتعليم

|            |                                                                                                                                                                                                                                                                                                                                                                                              |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategies | The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering type of simple experiments involving some sampling activities that are interesting to the students. |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### Student Workload (SWL) الحمل الدراسي للطالب

|                                                                         |     |                                                                    |     |
|-------------------------------------------------------------------------|-----|--------------------------------------------------------------------|-----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطالب خلال الفصل       | 33  | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطالب أسبوعيا       | 2.2 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطالب خلال الفصل | 17  | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطالب أسبوعيا | 1.2 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطالب خلال الفصل              | 200 |                                                                    |     |

#### Module Evaluation تقييم المادة الدراسية

|                      |                 | Time/Number | Weight (Marks)   | Week Due | Relevant Learning Outcome |
|----------------------|-----------------|-------------|------------------|----------|---------------------------|
| Formative assessment | Quizzes         | 1           | 5% (5)           | 5, 10    | LO #1, 2, 10 and 11       |
|                      | Assignments     | 1           | 5% (5)           | 2, 12    | LO # 3, 4, 6 and 7        |
|                      | Projects / Lab. | /           | /                | /        | /                         |
|                      | Report          | /           | /                | /        | /                         |
| Summative assessment | Midterm Exam    | 2 hr        | 40% (40)         | 7        | LO # 1-7                  |
|                      | Final Exam      | 3hr         | 50% (50)         | 16       | All                       |
| Total assessment     |                 |             | 100% (100 Marks) |          |                           |

### Delivery Plan (Weekly Syllabus)

المناهج الأسبوعي النظري

|         | Material Covered                                                                      |
|---------|---------------------------------------------------------------------------------------|
| Week 1  | Unit One : Hello / Grammar; Vocabulary; Skills Work and Everyday English              |
| Week 2  | Unit Two : Your World / Grammar; Vocabulary; Skills Work and Everyday English..       |
| Week 3  | Unit Three: : All about you/ Grammar; Vocabulary; Skills Work and Everyday English..  |
| Week 4  | Unit Four: Family and Friends/ Grammar; Vocabulary; Skills Work and Everyday English. |
| Week 5  | Unit Five: The way I live / Grammar; Vocabulary; Skills Work and Everyday English.    |
| Week 6  | .Unit Six: Every Day/ Grammar; Vocabulary; Skills Work and Everyday English.          |
| Week 7  | Unit Seven: Places I Like / Grammar; Vocabulary; Skills Work and Everyday English.    |
| Week 8  | Midterm Exam.                                                                         |
| Week 9  | Unit Eight: Where I live: / Grammar; Vocabulary; Skills Work and Everyday English.    |
| Week 10 | Unit Nine: Happy Birthday!: Grammar; Vocabulary; Skills Work and Everyday English.    |
| Week 11 | Unit Ten: We had a good time!: Grammar; Vocabulary; Skills Work and Everyday English. |
| Week 12 | Unit Eleven: We can do it! Grammar; Vocabulary; Skills Work and Everyday English. .   |
| Week 13 | Unit Twelve :Thank you!: Grammar; Vocabulary; Skills Work and Everyday English.       |
| Week 14 | Rapid Review.                                                                         |
| Week 15 | Examination                                                                           |

### Delivery Plan (Weekly Lab. Syllabus)

المناهج الأسبوعي للمختبر

|  | Material Covered |
|--|------------------|
|--|------------------|

### Learning and Teaching Resources

مصادر التعلم والتدريس

|                   | Text                                                                                      | Available in the Library? |
|-------------------|-------------------------------------------------------------------------------------------|---------------------------|
| Required Texts    | New Headway Plus Beginner Student's Book                                                  | No                        |
| Recommended Texts | English Grammar in Use.                                                                   | No                        |
| Websites          | <a href="https://elt.oup.com">https://elt.oup.com</a> > ... > New Headway Plus > Beginner |                           |

### Grading Scheme

مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A - Excellent    | امتياز              | 90 – 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 – 89   | Above average with some errors        |
|                             | C – Good         | جيد                 | 70 – 79   | Sound work with notable errors        |
|                             | D – Satisfactory | متوسط               | 60 – 69   | Fair but with major shortcomings      |
|                             | E - Sufficient   | مقبول               | 50 – 59   | Work meets minimum criteria           |
| Fail Group<br>(0 – 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

### Module Information

معلومات المادة الدراسية

|                                    |                                   |                          |                               |                                                                                                                                                                                                                                   |       |
|------------------------------------|-----------------------------------|--------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Module Title                       | Architectural Design & graphic I  |                          |                               | Module Delivery                                                                                                                                                                                                                   |       |
| Module Type                        | C                                 |                          |                               | <div><input checked="" type="checkbox"/> Theory<br/>Lecture<br/><input type="checkbox"/> Lab<br/>x<input type="checkbox"/> Tutorial<br/><input checked="" type="checkbox"/> Practical<br/><input type="checkbox"/>x Seminar</div> |       |
| Module Code                        | UOBAB0106025                      |                          |                               |                                                                                                                                                                                                                                   |       |
| ECTS Credits                       | 12                                |                          |                               |                                                                                                                                                                                                                                   |       |
| SWL (hr/sem)                       | 300                               |                          |                               |                                                                                                                                                                                                                                   |       |
| Module Level                       |                                   | UGI                      | Semester of Delivery          |                                                                                                                                                                                                                                   | 2     |
| Administering Department           |                                   | Architecture Engineering | College                       | University of Babylon                                                                                                                                                                                                             |       |
| Module Leader                      | Name: Ph.D.Mahmood rezooky janjun |                          | e-mail                        | E-mail                                                                                                                                                                                                                            |       |
| Module Leader's Acad. Title        |                                   | Professor                | Module Leader's Qualification |                                                                                                                                                                                                                                   | Ph.D. |
| Module Tutor                       | Name (:Mahmood rezooky janjun)    |                          | e-mail                        | E-mail:<br>eng.mahmood.rezooky@uobabylon.edu.iq                                                                                                                                                                                   |       |
| Peer Reviewer Name                 |                                   | Name: Ph.D. ola.abid     | e-mail                        | E-mail: eng.ola.abid@uobabylon.edu.iq                                                                                                                                                                                             |       |
| Scientific Committee Approval Date |                                   | 01/06/2023               | Version Number                |                                                                                                                                                                                                                                   | 1.0   |

| Relation with other Modules<br>العلاقة مع المواد الدراسية الأخرى |   |          |   |
|------------------------------------------------------------------|---|----------|---|
| Prerequisite module                                              | c | Semester | 3 |
| Co-requisites module                                             | c | Semester |   |

| Module Aims, Learning Outcomes and Indicative Contents<br>أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                                                                               | <p>تهيئة الطالب لدخول عالم العمارة فكريا ومفاهيميا وعلميا كقاعدة عمل أساسية ,وتعريفه بمفهوم العمارة من خلال التعرف على مبادئ التصميم والتكوين والبعد الثالث والفضاء المعماري والمقياس الانساني ومحيط البيئة الحضرية وغيرها . وتنمية لغة التعبير لدى الطالب عن تلك المفردات وغيرها . ويركز الموضوع ايضا على تنمية الحس الفني والتكويني لديه ونمط التفكير التحليلي –التركيبى فضلا عن تنمية ادراكه وتحسسه للبيئة الطبيعية والعمرانية واحترامها ابتداء من ادراك وتنوq البيئة لحضرية ودراسة العلاقات التكوينية والتشكيلية والاحراجية لعناصرها ومكوناتها</p> <p>Preparing the student to enter the world of architecture intellectually, conceptually and scientifically as a basic work base, and introducing him to the concept of architecture by identifying the principles of design, composition, the third dimension, the architectural space, the human scale, the surroundings of the urban environment, and others. And the development of the student's language of expression for those vocabulary and others. The subject also focuses on developing his artistic and formative sense and the analytical-synthetic thinking style, as well as developing his perception and sensitivity to the natural and urban environment and respecting it, starting from realizing and appreciating the urban environment and studying the formative, formative and directive relationships of its elements and components.</p> <p>يعد الرسم المعماري احد اهم وسائل التعبير عن افكار المعماري التصميمية . ولذلك فان المادة تهدف الى بناء مهارات الطالب التعبيرية بالاضافة الى تدريبه على استخدام المواد والتقنيات المختلفة في الاظهار ( presentation ) ويركز الموضوع على البناء التدريجي لمهارات الطالب من خلال التسلسل الواضح للتمرين ابتداء من التمارين ال بسيطة والخط ووصولا الى الرسومات ذات البعدين (Two Dimensional Drawings) المتمثلة بالمساقط والعمودية (Sections and Elevations plans).</p> <p>architectural drawing is one of the most important means of expressing the architect's ideas. Therefore, the course aims to build and develop the student's expressive skills, in addition to training him on the use of different materials and techniques in presentation. The subject focuses on the gradual building of the student's skills through a clear sequence of exercises, starting from exercises related to line values and ending with two-dimensional drawings (Two Dimensional Drawings). ) represented by the horizontal and vertical plans (Sections and Elevations plans).</p> |

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية | <p>The student is prepared through architectural design and drawing for a full year, after which he is able to use all that he has learned from calligraphy technique, binary and triple formation in addition to the human scale, the basics of architectural design, then he can identify the elements of architectural design and learn the principles of architectural design. He then qualifies in a simple form for architectural criticism. And guidance to design something primitive for a simple project. Where it is fully prepared for it in terms of the student's ability to design what is required of him in a way that leads to his development later in the second stage</p> <p>يتهيئ الطالب من خلال التصميم والرسم المعماري لمدة سنة كاملة حيث يتمكن بعدها من استخدام كل ما تعلمه من تقنيات الخط والتكوين الثنائي والثلاثي إضافة إلى المقياس الإنساني أساسيات التصميم المعماري ثم يستطيع بعدها التعرف على عناصر التصميم المعماري وتعلم مبادئ التصميم المعماري يتأهل بعدها بشكل بسيط للنقد المعماري والتوجيه لتصميم شيء بدائي لمشروع بسيط . حيث يكون متهيأ لها بشكل كامل من حيث قدرة الطالب على تصميم ما مطلوب منه بشكل يؤدي إلى أن يتطور لاحقاً في المرحلة الثانية</p> |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Indicative Contents<br>المحتويات الإرشادية | <p>Developing the capabilities of the student's artistic (20hrs( architectural creative thinking by developing his architectural information (20hrs( developing his drawing capabilities (10hrs( building his architectural memory by viewing architectural products with pictures and videos. ( 10hrs( Learn how to show by professional hand drawing and in different styles, watercolors, acrylic markers, etc (10hrs ( Performing all that is required of drawing class assignments from drawing projects in all their stages and showing them at a high professional level through manual drawing) (30hrs (</p> <p>تنمية قدرات الطالب الفنية (20 ساعة).<br/>التفكير الإبداعي المعماري من خلال تطوير معلوماته المعمارية (20 ساعة)<br/>تطوير قدراته في الرسم (10 ساعات).<br/>بناء ذاكرته المعمارية من خلال عرض المنتجات المعمارية بالصور والفيديو. (10 ساعات)<br/>تعلم كيفية العرض من خلال الرسم اليدوي الاحترافي وبأشكال مختلفة ، وألوان مائية ، وأقلام تحديد أكريليك ، وما إلى ذلك (10 ساعات)<br/>القيام بكل ما هو مطلوب من رسم الواجبات الصفية من رسم المشاريع في جميع مراحلها وإظهارها على مستوى احترافي عالٍ من خلال الرسم اليدوي (30 ساعة).</p> |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Learning and Teaching Strategies

#### استراتيجيات التعلم والتعليم

|            |                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategies | Type something like: The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering type of simple experiments involving some sampling activities that are interesting to the students. |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Student Workload (SWL)

#### الحمل الدراسي للطالب

|                                                                         |     |                                                                     |     |
|-------------------------------------------------------------------------|-----|---------------------------------------------------------------------|-----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطالب خلال الفصل       | 180 | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطالب أسبوعياً       | 12  |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطالب خلال الفصل | 120 | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطالب أسبوعياً | 8   |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطالب خلال الفصل              |     |                                                                     | 300 |

### Module Evaluation Architectural Design I

#### تقييم المادة الدراسية

|                      |                 | Time/Number | Weight (Marks) | Week Due            | Relevant Learning Outcome |
|----------------------|-----------------|-------------|----------------|---------------------|---------------------------|
| Formative assessment | Quizzes         |             |                |                     |                           |
|                      | Assignments     | 10          | 25% (25)       | 2, 4,5,6,7, 9,10,11 |                           |
|                      | Projects / Lab. | 2           | 15% (15)       | Continuous          |                           |
|                      | Report          |             |                |                     |                           |
| Summative assessment | Midterm Exam    | 2           | 10%            | 12,14               |                           |
|                      | Final Exam      |             |                |                     | All                       |
| Total assessment     |                 |             | 50% (50 Marks) | Total assessment    | 50% (50 Marks)            |

### Module Evaluation Architectural Drawing I

تقييم المادة الدراسية

|                      |                 | Time/Number | Weight (Marks) | Week Due         | Relevant Learning Outcome |
|----------------------|-----------------|-------------|----------------|------------------|---------------------------|
| Formative assessment | Quizzes         |             |                |                  |                           |
|                      | Assignments     | 5           | 25% (25)       | 2, 5, ,7 ,10,11  |                           |
|                      | Projects / Lab. | 4           | 20% (20)       | Continuous       |                           |
|                      | Report          |             |                |                  |                           |
| Summative assessment | Midterm Exam    | 2           | 10% (10)       | 8, 14            |                           |
|                      | Final Exam      |             |                |                  | All                       |
| Total assessment     |                 |             | 50% (50 Marks) | Total assessment | 50% (50 Marks)            |

### Delivery Plan (Weekly Syllabus)

المناهج الاسبوعي النظري

### Delivery Plan (Weekly Lab. Syllabus)

المناهج الاسبوعي للمختبر

|         |                                                                     |
|---------|---------------------------------------------------------------------|
| Week 1  | Quality of lines in free hand and to scale by measuring instruments |
| Week 2  | Composition fundamentals in pencil graphic shade                    |
| Week 3  | Composition fundamentals in collage                                 |
| Week 4  | Composition types                                                   |
| Week 5  | Color circle                                                        |
| Week 6  | Composition in color                                                |
| Week 7  | The abstraction                                                     |
| Week 8  | 2D composition abstraction – prelim                                 |
| Week 9  | Pre- final                                                          |
| Week 10 | Final 2D composition of abstraction                                 |
| Week 11 | Day Sketch                                                          |
| Week 12 | 3D composition                                                      |
| Week 13 | Human                                                               |

### Learning and Teaching Resources

مصادر التعلم والتدريس

|                   | Text                                                                                | Available in the Library? |
|-------------------|-------------------------------------------------------------------------------------|---------------------------|
| Required Texts    |                                                                                     | Yes                       |
| Recommended Texts | Neufert Architecture s Data<br>Architectural Design Data-<br>Landscape Architectre- | No                        |

|          |                                                 |  |
|----------|-------------------------------------------------|--|
|          | Site construction Details-<br>Pencil Sketching- |  |
| Websites |                                                 |  |

### Grading Scheme

مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A - Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                             | C - Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                             | E - Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 - 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

## SECOND-YEAR\ FIRST-SEMESTER MODULE DESCRIPTION FORM

### Module Information

معلومات المادة الدراسية

|                                    |                          |                 |                               |                                                                                                                                                                                                                            |       |
|------------------------------------|--------------------------|-----------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Module Title                       | Building Construction II |                 |                               | Module Delivery                                                                                                                                                                                                            |       |
| Module Type                        | C                        |                 |                               | <input checked="" type="checkbox"/> Theory<br>Lecture<br><input checked="" type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial<br><input checked="" type="checkbox"/> Practical<br><input type="checkbox"/> Seminar |       |
| Module Code                        | Arch2316                 |                 |                               |                                                                                                                                                                                                                            |       |
| ECTS Credits                       | 4                        |                 |                               |                                                                                                                                                                                                                            |       |
| SWL (hr/sem)                       | 100                      |                 |                               |                                                                                                                                                                                                                            |       |
| Module Level                       |                          | UGII            | Semester of Delivery          |                                                                                                                                                                                                                            | 3     |
| Administering Department           |                          | Type Dept. Code | College                       | Type College Code                                                                                                                                                                                                          |       |
| Module Leader                      | Name: Rewa menaf         |                 | e-mail                        | E-mail;<br>eng.rawaaabd.alshalah@uobabylon.edu.iq                                                                                                                                                                          |       |
| Module Leader's Acad. Title        |                          | Professor       | Module Leader's Qualification |                                                                                                                                                                                                                            | Ph.D. |
| Module Tutor                       | Name (if available)      |                 | e-mail                        | E-mail                                                                                                                                                                                                                     |       |
| Peer Reviewer Name                 |                          | Name            | e-mail                        | E-mail                                                                                                                                                                                                                     |       |
| Scientific Committee Approval Date |                          | 01/06/2023      | Version Number                |                                                                                                                                                                                                                            | 1.0   |

### Relation with other Modules

العلاقة مع المواد الدراسية الأخرى

|                      |      |          |  |
|----------------------|------|----------|--|
| Prerequisite module  | None | Semester |  |
| Co-requisites module | None | Semester |  |

### Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

|                                      |                                                                                                                                                                                 |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية | The aim of this subject is to learn students the technology of building construction as architect need to know about for the purpose of improve their design ability , all that |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                        | <p>could be done throughout understanding building and construction main elements beside the secondary ones toward the full understanding the whole building construction details and components . As students completed this program they will have the ability to understand and know the building structural function , realize the suitable construction materials that match with building type , find out the relation between construction materials and surround environment , recognize building types and the suitable structure system for each types ,drawing architectural details .</p> <p>The program includes many site visits to projects under construction, and students will be asked to follow out the construction process of simple residential unit and submit a report.</p> |
| <b>Module Learning Outcomes</b><br>مخرجات التعلم للمادة الدراسية       | <p>Type something like: The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering type of simple experiments involving some sampling activities that are interesting to the students.</p>                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Indicative Contents</b><br>المحتويات الإرشادية                      | <p>building construction (3hr)<br/> Building process- construction types (6hr)<br/> Structural systems ( load bearing walls- skeleton frame) (6hr)<br/> Foundation construction (3hr)<br/> Foundations types (6hr)<br/> Foundations details (3hr)<br/> Structural elements – walls (4hr)<br/> Walls construction methods (3hr)<br/> Walls details, lintels, openings in wall (3hr)</p>                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Learning and Teaching Strategies</b><br>استراتيجيات التعلم والتعليم |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Strategies</b>                                                      | <p>Type something like: The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering type of simple experiments involving some sampling activities that are interesting to the students.</p>                                                                                                                                                                                                                                                                                                                                                                             |

| <b>Student Workload (SWL)</b><br>الحمل الدراسي للطالب                          |     |                                                                            |     |
|--------------------------------------------------------------------------------|-----|----------------------------------------------------------------------------|-----|
| <b>Structured SWL (h/sem)</b><br>الحمل الدراسي المنتظم للطالب خلال الفصل       | 63  | <b>Structured SWL (h/w)</b><br>الحمل الدراسي المنتظم للطالب أسبوعياً       | 4.2 |
| <b>Unstructured SWL (h/sem)</b><br>الحمل الدراسي غير المنتظم للطالب خلال الفصل | 37  | <b>Unstructured SWL (h/w)</b><br>الحمل الدراسي غير المنتظم للطالب أسبوعياً | 2.4 |
| <b>Total SWL (h/sem)</b><br>الحمل الدراسي الكلي للطالب خلال الفصل              | 100 |                                                                            |     |

| <b>Module Evaluation</b><br>تقييم المادة الدراسية |                 |             |                  |            |                           |
|---------------------------------------------------|-----------------|-------------|------------------|------------|---------------------------|
|                                                   |                 | Time/Number | Weight (Marks)   | Week Due   | Relevant Learning Outcome |
| Formative assessment                              | Quizzes         | 2           | 5% (5)           | 5, 10      | LO #1, 2, 10 and 11       |
|                                                   | Assignments     | 2           | 10% (10)         | 2, 12      | LO # 3, 4, 6 and 7        |
|                                                   | Projects / Lab. | 2           | 10% (10)         | Continuous |                           |
|                                                   | Report          |             |                  |            |                           |
| Summative assessment                              | Midterm Exam    | 2 hr        | 25% (25)         | 7          | LO # 1-7                  |
|                                                   | Final Exam      | 32hr        | 50% (50)         | 16         | All                       |
| Total assessment                                  |                 |             | 100% (100 Marks) |            |                           |

Delivery Plan (Weekly Syllabus)  
المنهاج الاسبوعي النظري

Delivery Plan (Weekly Lab. Syllabus)  
المنهاج الاسبوعي للمختبر

|         | Material Covered                                        |
|---------|---------------------------------------------------------|
| Week 1  | Introduction – building construction                    |
| Week 2  | Building process- construction types                    |
| Week 3  | Structural systems ( load bearing walls- skeleton frame |
| Week 4  | Foundation construction                                 |
| Week 5  | Foundations types                                       |
| Week 6  | Foundations details                                     |
| Week 7  | Structural elements – walls                             |
| Week 8  | Walls construction methods                              |
| Week 9  | Walls details, lintels, openings in wall                |
| Week 10 | Exam                                                    |
| Week 11 | Floors types                                            |
| Week 12 | Floor details                                           |
| Week 13 | Floor construction                                      |
| Week 14 | Floors details                                          |
| Week 15 | Exam                                                    |

Learning and Teaching Resources  
مصادر التعلم والتدريس

|                   | Text | Available in the Library? |
|-------------------|------|---------------------------|
| Required Texts    |      | Yes                       |
| Recommended Texts |      | No                        |
| Websites          |      |                           |

Grading Scheme  
مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A – Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                             | C – Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                             | E - Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 – 49)      | FX – Fail        | راسب (فيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |

Module Information  
معلومات المادة الدراسية

| Module Title | History of Architecture I | Module Delivery                                                                                                                                     |
|--------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Type  | Support                   | <input checked="" type="checkbox"/> Theory<br><input type="checkbox"/> Lecture<br><input type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial |
| Module Code  | Arch2305                  |                                                                                                                                                     |
| ECTS Credits | 4                         |                                                                                                                                                     |

|                                    |                           |                               |                                                                                   |   |
|------------------------------------|---------------------------|-------------------------------|-----------------------------------------------------------------------------------|---|
| SWL (hr/sem)                       | 100                       |                               | <input type="checkbox"/> Practical<br><input checked="" type="checkbox"/> Seminar |   |
| Module Level                       | UGII                      | Semester of Delivery          |                                                                                   | 3 |
| Administering Department           | Architectural department  | College                       | College of engineering                                                            |   |
| Module Leader                      | Name: Mahmood Amer Chabuk | e-mail                        | E-mail: mahmoodchabuk@gmail.com                                                   |   |
| Module Leader's Acad. Title        | Lecturer                  | Module Leader's Qualification | Ph.D.                                                                             |   |
| Module Tutor                       | N.A                       | e-mail                        | E-mail                                                                            |   |
| Peer Reviewer Name                 | N.A                       | e-mail                        | N.A                                                                               |   |
| Scientific Committee Approval Date | 01/06/2023                | Version Number                | 1.0                                                                               |   |

Relation with other Modules  
العلاقة مع المواد الدراسية الأخرى

|                      |      |          |  |
|----------------------|------|----------|--|
| Prerequisite module  | None | Semester |  |
| Co-requisites module | None | Semester |  |

Module Aims, Learning Outcomes and Indicative Contents  
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                      | <ol style="list-style-type: none"> <li>1. Learn about the history of architecture in Iraq</li> <li>2. To Learn about the emergence of the first civilizations and their settlements in the Mesopotamia Valley.</li> <li>3. Knowledge of architectural history gives an understanding of the ideas that were important to and shaped past societies.</li> <li>4. Learn about the most important architectural models in the Mesopotamian civilization.</li> <li>5. To study the Main features of architecture with examples.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية | <ol style="list-style-type: none"> <li>1. To trace the changes in architecture through various traditions, regions, stylistic, trends and dates.</li> <li>2. Understand how architecture influences society and its culture.</li> <li>3. List the various terms associated with electrical circuits.</li> <li>4. To pave the way for developing one's critical thinking skills.</li> <li>5. To inspire thinking in the architectural designing process.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Indicative Contents<br>المحتويات الإرشادية                | <p>Indicative content includes the following.</p> <p>-Introduction to History of architecture : [2 hr.].</p> <p>MESOPOTAMIA THE CRADLE OF CIVILIZATION—geology, rivers, and climate.</p> <p>Earliest settlements in Mesopotamia. [4 hr.].</p> <p>Main civilizations: Architectural features for each of Sumerians city-states, Akkadian architecture, NEO-SUMERIAN architecture -3rd Dynasty of Ur, Assyrian architecture Babylonian architecture. [8 hr.].</p> <p>-Mesopotamia under foreign rule- Architectural features for each of :</p> <p>Achaemenid &amp; Seleucid Architecture</p> <p>Parthian &amp; Sasanian Architecture. [3 hr.].</p> <p>-PRE-ISLAMIC ARAB-STATE IN IRAQ: [2 hr.].</p> <p>IRAQ AFTER ISLAM AL-KUFA CITY, IRAQ IN Umayyad Period “Ancient Wasit”,</p> <p>IRAQ IN ABBASID PERIOD “Round city of Baghdad”, Ancient Samarra. [8 hr.].</p> <p>-Reports depending on writing &amp; discussing Selected models of historical buildings. after the submission of the report , each student will present his work as a seminar . the seminar material will be depended in the final examination questions.. (10 hours a semester)</p> |

Learning and Teaching Strategies  
استراتيجيات التعلم والتعليم

|            |                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategies | Type something like: The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering type of simple experiments involving some sampling activities that are interesting to the students. |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Student Workload (SWL)<br>الحمل الدراسي للطلاب                          |     |                                                                    |      |
|-------------------------------------------------------------------------|-----|--------------------------------------------------------------------|------|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطلاب خلال الفصل       | 63  | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطلاب أسبوعيا       | 4.2  |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطلاب خلال الفصل | 37  | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطلاب أسبوعيا | 2.46 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطلاب خلال الفصل              | 100 |                                                                    |      |

| Module Evaluation<br>تقييم المادة الدراسية |                 |             |                  |          |                           |
|--------------------------------------------|-----------------|-------------|------------------|----------|---------------------------|
|                                            |                 | Time/Number | Weight (Marks)   | Week Due | Relevant Learning Outcome |
| Formative assessment                       | Quizzes         | .5          | 15% (5)          | 4, 8, 12 |                           |
|                                            | Assignments     | 3           | 15% (15)         | 3, 6, 13 |                           |
|                                            | Projects / Lab. | --          | --               | --       |                           |
|                                            | Report          | 1           | 10% (10)         | 15       |                           |
| Summative assessment                       | Midterm Exam    | 2 hr        | 10% (20)         | 6, 14    |                           |
|                                            | Final Exam      | 3hr         | 50% (50)         | 16       | All                       |
| Total assessment                           |                 |             | 100% (100 Marks) |          |                           |

| Delivery Plan (Weekly Syllabus)<br>المنهاج الأسبوعي النظري |                                                          |                                                                   |
|------------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------|
| Classwork –                                                | Material Covered -Part A                                 | Material Covered -Part B                                          |
| Week 1                                                     | Introduction to History of architecture                  | MESOPOTAMIA THE CRADLE OF CIVILIZATION                            |
| Week 2                                                     | Iraq—geology, rivers, and climate                        | Earliest settlements in Mesopotamia                               |
| Week 3                                                     | Sumerians city-states                                    | Akkadian architecture                                             |
| Week 4                                                     | NEO-SUMERIAN architecture -3 <sup>rd</sup> Dynasty of Ur | Assyrian architecture                                             |
| Week 5                                                     | Babylonian architecture                                  | General architectural features in the architecture of Mesopotamia |
| Week 6                                                     | Exam                                                     | Ancient Egyptian architecture                                     |
| Week 7                                                     | Mesopotamia under foreign rule-                          | Achaemenid Architecture                                           |
| Week 8                                                     | Seleucid Architecture                                    | Parthian Architecture                                             |
| Week 9                                                     | Sasanian Architecture                                    | PRE-ISLAMIC ARAB-STATE IN IRAQ                                    |
| Week 10                                                    | IRAQ AFTER ISLAM AL-KUFA CITY                            | Basrah city                                                       |
| Week 11                                                    | Scientific Trip                                          | IRAQ IN Umayyad Period “Ancient Wasit”                            |
| Week 12                                                    | IRAQ IN ABBASID PERIOD “Round city of Baghdad”           | Ancient Samarra                                                   |
| Week 13                                                    | Ukhaidir Fortress                                        | Madrasa & Khans                                                   |
| Week 14                                                    | Abbasid structural structures                            | Exam                                                              |
| Week 15                                                    | Discussion reports                                       | Discussion reports                                                |
| Week 16                                                    | Final exam                                               |                                                                   |

## Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

Material Covered

## Learning and Teaching Resources

مصادر التعلم والتدريس

|                   | Text                                                                                                                                                     | Available in the Library? |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Required Texts    | تاريخ فن العمارة العراقية في مختلف العصور : شريف يوسف<br>تاريخ العمارة عبر العصور : قبيلة المالكي.<br>Sir Banister Fletcher's: A History of Architecture | Yes                       |
| Recommended Texts | Babylon-The Great City: Olaf Pedersen.                                                                                                                   | No                        |
| Websites          |                                                                                                                                                          |                           |

## Grading Scheme

مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A - Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                             | C - Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                             | E - Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 - 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

## Module Information

معلومات المادة الدراسية

|                                    |                     |                          |                               |                                                                                                                                                                                                                            |       |
|------------------------------------|---------------------|--------------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Module Title                       | Computer II         |                          |                               | Module Delivery                                                                                                                                                                                                            |       |
| Module Type                        | B                   |                          |                               | <input checked="" type="checkbox"/> Theory<br>Lecture<br><input checked="" type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial<br><input checked="" type="checkbox"/> Practical<br><input type="checkbox"/> Seminar |       |
| Module Code                        | Arch2314            |                          |                               |                                                                                                                                                                                                                            |       |
| ECTS Credits                       | 3                   |                          |                               |                                                                                                                                                                                                                            |       |
| SWL (hr/sem)                       | 75                  |                          |                               |                                                                                                                                                                                                                            |       |
| Module Level                       |                     | UGIII                    | Semester of Delivery          |                                                                                                                                                                                                                            | 3     |
| Administering Department           |                     | Architecture Engineering | College                       | University of Babylon                                                                                                                                                                                                      |       |
| Module Leader                      | Dr.evan madhy hamza |                          | e-mail                        | Eng.evan.rubae@uobabylon.edu.iq                                                                                                                                                                                            |       |
| Module Leader’s Acad. Title        |                     | Professor                | Module Leader’s Qualification |                                                                                                                                                                                                                            | Ph.D. |
| Module Tutor                       | Name (if available) |                          | e-mail                        | E-mail                                                                                                                                                                                                                     |       |
| Peer Reviewer Name                 |                     | Name                     | e-mail                        | E-mail                                                                                                                                                                                                                     |       |
| Scientific Committee Approval Date |                     | 01/06/2023               | Version Number                |                                                                                                                                                                                                                            | 1.0   |

Relation with other Modules  
العلاقة مع المواد الدراسية الأخرى

|                      |      |          |  |
|----------------------|------|----------|--|
| Prerequisite module  | None | Semester |  |
| Co-requisites module | None | Semester |  |

Module Aims, Learning Outcomes and Indicative Contents  
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                      | <ol style="list-style-type: none"> <li>To provide students with fundamental knowledge of computer networks, network types, basic components, and essential cybersecurity concepts.</li> <li>To introduce students to electronic banking services and modern digital payment methods.</li> <li>To develop students' ability to identify and troubleshoot common hardware and software problems.</li> <li>To familiarize students with the basic concepts of Artificial Intelligence and its applications in daily life.</li> <li>To enhance students' understanding of the societal and ethical implications of AI, as well as future trends in AI technologies.</li> </ol> |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية | <ol style="list-style-type: none"> <li>Understand the basic concepts of networks, security, and electronic banking.</li> <li>Apply basic troubleshooting techniques to solve simple technical issues.</li> <li>Recognize basic concepts and applications of Artificial Intelligence.</li> <li>Understand the social and ethical impacts of AI.</li> </ol>                                                                                                                                                                                                                                                                                                                  |
| Indicative Contents<br>المحتويات الإرشادية                | <ol style="list-style-type: none"> <li>The student should be able to make two-dimensional architectural plans (10hu)</li> <li>The student should be able to convert binary architectural plans into three-dimensional figures and blocks (10hu)</li> <li>The student learns how to develop the scene by setting the lighting and the camera (27hu)</li> </ol>                                                                                                                                                                                                                                                                                                              |

Learning and Teaching Strategies  
استراتيجيات التعلم والتعليم

|            |                                                                                                                                                                                                                                                                                        |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategies | <ol style="list-style-type: none"> <li>Explaining the scientific material to students in detail.</li> <li>Practical application in the laboratory of everything that has been studied theoretically</li> <li>Discussion and dialogue about vocabulary related to the topic.</li> </ol> |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Student Workload (SWL)  
الحمل الدراسي للطلاب

|                                                                         |    |                                                                     |     |
|-------------------------------------------------------------------------|----|---------------------------------------------------------------------|-----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطلاب خلال الفصل       | 48 | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطلاب أسبوعياً       | 3.2 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطلاب خلال الفصل | 27 | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطلاب أسبوعياً | 1.8 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطلاب خلال الفصل              | 75 |                                                                     |     |

Module Evaluation  
تقييم المادة الدراسية

|                      |                 | Time/Number | Weight (Marks)   | Week Due | Relevant Learning Outcome |
|----------------------|-----------------|-------------|------------------|----------|---------------------------|
| Formative assessment | Quizzes         | 1           | 10% (10)         | 5, 10    | LO #1, 2, 10 and 11       |
|                      | Assignments     |             |                  |          |                           |
|                      | Projects / Lab. |             |                  |          |                           |
|                      | Report          | 1           | 10 (10)          | 13       | LO # 5, 8 and 10          |
| Summative assessment | Midterm Exam    | 2 hr        | 30% (30)         | 7        | LO # 1-7                  |
|                      | Final Exam      | 2hr         | 50% (50)         | 16       | All                       |
| Total assessment     |                 |             | 100% (100 Marks) |          |                           |

Delivery Plan (Weekly Lab. Syllabus)  
المنهاج الاسبوعي للمختبر

|         | Material Covered |
|---------|------------------|
| Week 1  |                  |
| Week 2  |                  |
| Week 3  |                  |
| Week 4  |                  |
| Week 5  |                  |
| Week 6  |                  |
| Week 7  |                  |
| Week 8  |                  |
| Week 9  |                  |
| Week 10 |                  |
| Week 11 |                  |
| Week 12 |                  |
| Week 13 |                  |
| Week 14 |                  |
| Week 15 |                  |

Delivery Plan (Weekly Syllabus)  
المنهاج الاسبوعي النظري

|  | Material Covered |
|--|------------------|
|--|------------------|

Learning and Teaching Resources  
مصادر التعلم والتدريس

|                   | Text                                                                                                                                                                                                                                                                                                                                                                                                                                        | Available in the Library? |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Required Texts    | <ol style="list-style-type: none"> <li>Graham Brown, David Watson, "Cambridge IGCSE Information and Communication Technology", 3rd Edition(2020)</li> <li>Al-Khadr Ali Al-Khadr (Researcher), "Computer Fundamentals", 2016.</li> <li>Computer Networks – Andrew S. Tanenbaum<br/>Introduction to Artificial Intelligence – Stuart Russell &amp; Peter Norvig</li> <li>Computer Hardware and Troubleshooting Basics – (Beginner-</li> </ol> | Yes                       |
| Recommended Texts |                                                                                                                                                                                                                                                                                                                                                                                                                                             | No                        |
| Websites          |                                                                                                                                                                                                                                                                                                                                                                                                                                             |                           |

Grading Scheme

مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A – Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                             | C – Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                             | E – Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 – 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |
|                             |                  |                     |           |                                       |

Module Information  
معلومات المادة الدراسية

|                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                               |                                                                                                                                                                                                                                       |                                              |
|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Module Title                                                                                                       | Architectural Design III                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                               | Module Delivery                                                                                                                                                                                                                       |                                              |
| Module Type                                                                                                        | C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                               | <input checked="" type="checkbox"/> Theory<br>Lecture<br><input checked="" type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial<br><input checked="" type="checkbox"/> Practical<br><input checked="" type="checkbox"/> Seminar |                                              |
| Module Code                                                                                                        | Arch2311                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                               |                                                                                                                                                                                                                                       |                                              |
| ECTS Credits                                                                                                       | 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                               |                                                                                                                                                                                                                                       |                                              |
| SWL (hr/sem)                                                                                                       | 225                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                               |                                                                                                                                                                                                                                       |                                              |
| Module Level                                                                                                       | UGII                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Semester of Delivery          |                                                                                                                                                                                                                                       | 3                                            |
| Administering Department                                                                                           | Architecture Engineering                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | College                       | University of Babylon                                                                                                                                                                                                                 |                                              |
| Module Leader                                                                                                      | Name: DR. HUSSAM JABBAR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                               | e-mail                                                                                                                                                                                                                                | E-mail<br>Eng.hussam.jabbar@uobabylon.end.iq |
| Module Leader's Acad. Title                                                                                        | Professor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Module Leader's Qualification |                                                                                                                                                                                                                                       | Ph.D.                                        |
| Module Tutor                                                                                                       | Name (if available)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                               | e-mail                                                                                                                                                                                                                                | E-mail<br>Eng.hussam.jabbar@uobabylon.end.iq |
| Peer Reviewer Name                                                                                                 | Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | e-mail                        | E-mail<br>Eng.hussam.jabbar@uobabylon.end.iq                                                                                                                                                                                          |                                              |
| Scientific Committee Approval Date                                                                                 | 01/06/2023                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Version Number                | 1.0                                                                                                                                                                                                                                   |                                              |
| Relation with other Modules<br>العلاقة مع المواد الدراسية الأخرى                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                               |                                                                                                                                                                                                                                       |                                              |
| Prerequisite module                                                                                                | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                               | Semester                                                                                                                                                                                                                              |                                              |
| Co-requisites module                                                                                               | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                               | Semester                                                                                                                                                                                                                              |                                              |
| Module Aims, Learning Outcomes and Indicative Contents<br>أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                               |                                                                                                                                                                                                                                       |                                              |
| Module Aims<br>أهداف المادة الدراسية                                                                               | The year in the architectural study represents an important transitional stage that moves the student from the stage of preparing designs of an abstract defining nature (which is represented in the first grade) to a more comprehensive stage in defining what architecture is (utility, durability and beauty), with an emphasis on the concept of local privacy and integration with the context and urban landscape.                                                                                                                                                                                                                                                                                                                                                                                                                                    |                               |                                                                                                                                                                                                                                       |                                              |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية                                                          | 6- Acquaint the student with art and architecture<br>7- To familiarize the student with the capabilities of scientific criticism<br>8- Know the basics of architectural design<br>9- Identify the elements of architectural design<br>10- Learn the principles of architectural design                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                               |                                                                                                                                                                                                                                       |                                              |
| Indicative Contents<br>المحتويات الإرشادية                                                                         | Developing the capabilities of the student's artistic (10hrs)<br>architectural creative thinking by developing his architectural information (10hrs)<br>developing his drawing capabilities (20hrs)<br>building his architectural memory by viewing architectural products with pictures and videos. (10hrs)<br>The student's memory is also developed by feeding it with the biographies of international architects and architecture masters (10hrs)<br>Learn advanced drawing programs such as AutoCAD (15hrs)<br>Learn how to show by professional hand drawing and in different styles, watercolors, acrylic markers, etc (15hrs)<br>Performing all that is required of drawing class assignments from drawing projects in all their stages and showing them at a high professional level through manual drawing or by means of computer program (30hrs) |                               |                                                                                                                                                                                                                                       |                                              |

### Student Workload (SWL)

الحمل الدراسي للطالب

|                                                                         |     |                                                                     |    |
|-------------------------------------------------------------------------|-----|---------------------------------------------------------------------|----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطالب خلال الفصل       | 180 | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطالب أسبوعياً       | 12 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطالب خلال الفصل | 120 | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطالب أسبوعياً | 8  |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطالب خلال الفصل              | 300 |                                                                     |    |

### Module Evaluation for Architectural Design III

تقييم المادة الدراسية للتصميم المعماري

|                      | Time/Number  | Weight (Marks) | Week Due | Relevant Learning Outcome |
|----------------------|--------------|----------------|----------|---------------------------|
| Formative assessment | Quizzes/     |                |          |                           |
|                      | Assignments  | 10             | 25% (25) | 2, 4,5,6,7, 9,10,11       |
|                      | Projects     | 2              | 15% (15) | Continuous                |
|                      | Report       |                |          |                           |
| Summative assessment | Midterm Exam | 2              | 10%      | 12,14                     |
|                      | Final Exam   |                |          | All                       |
| Total assessment     |              | 50% (50 Marks) |          |                           |

### Delivery Plan (Weekly Syllabus)

المنهاج الأسبوعي النظري

|                  |
|------------------|
| Material Covered |
|------------------|

### Delivery Plan (Weekly Lab. Syllabus)

المنهاج الأسبوعي للمختبر

|            |                                                                                                                                                                                                                                                                                                                                                                       |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | Material Covered<br>The first part of the curriculum takes nine hours per week during the first semester                                                                                                                                                                                                                                                              |
| Week 1-2   | A simple introductory project, the aim of which is to retrieve the information that the student was exposed to in the first stage and to create a mental warm-up to transfer the student from the abstract stage to a stage characterized by realism and functionalism. During this period, the summer homework required of the students is discussed and evaluated.  |
| Week 3 -14 | The project of designing a residence house aims to identify the design principles of specialized buildings. By preparing the initial and then final designs for the project, which takes about 6-8 weeks, while the second stage includes preparing the signature and compilation designs and some main components, which takes about 2-4 weeks. The student repeats. |

### Learning and Teaching Resources

مصادر التعلم والتدريس

|                   | Text                                                                                 | Available in the Library? |
|-------------------|--------------------------------------------------------------------------------------|---------------------------|
| Required Texts    | -Neufert Architecture s Data<br>-Architectural Design Data<br>-Landscape Architectre | Yes                       |
| Recommended Texts |                                                                                      | No                        |
| Websites          |                                                                                      |                           |

### Grading Scheme

مخطط الدرجات

| Group | Grade | التقدير | Marks (%) | Definition |
|-------|-------|---------|-----------|------------|
|-------|-------|---------|-----------|------------|

|                             |                  |                     |          |                                       |
|-----------------------------|------------------|---------------------|----------|---------------------------------------|
| Success Group<br>(50 - 100) | A - Excellent    | امتياز              | 90 - 100 | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 - 89  | Above average with some errors        |
|                             | C - Good         | جيد                 | 70 - 79  | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 - 69  | Fair but with major shortcomings      |
|                             | E - Sufficient   | مقبول               | 50 - 59  | Work meets minimum criteria           |
| Fail Group<br>(0 - 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)  | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)   | Considerable amount of work required  |
|                             |                  |                     |          |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

| Module Information<br>معلومات المادة الدراسية                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                            |                               |                                                                                                                                                                                                                                       |                                              |
|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Module Title                                                                                                       | Architectural Drawing III                                                                                                                                                                                                                                                                                                                                                                                                  |                               | Module Delivery                                                                                                                                                                                                                       |                                              |
| Module Type                                                                                                        | C                                                                                                                                                                                                                                                                                                                                                                                                                          |                               | <input checked="" type="checkbox"/> Theory<br>Lecture<br><input checked="" type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial<br><input checked="" type="checkbox"/> Practical<br><input checked="" type="checkbox"/> Seminar |                                              |
| Module Code                                                                                                        | Arch2312                                                                                                                                                                                                                                                                                                                                                                                                                   |                               |                                                                                                                                                                                                                                       |                                              |
| ECTS Credits                                                                                                       | 3                                                                                                                                                                                                                                                                                                                                                                                                                          |                               |                                                                                                                                                                                                                                       |                                              |
| SWL (hr/sem)                                                                                                       | 75                                                                                                                                                                                                                                                                                                                                                                                                                         |                               |                                                                                                                                                                                                                                       |                                              |
| Module Level                                                                                                       | UGII                                                                                                                                                                                                                                                                                                                                                                                                                       | Semester of Delivery          |                                                                                                                                                                                                                                       | 3                                            |
| Administering Department                                                                                           | Architecture Engineering                                                                                                                                                                                                                                                                                                                                                                                                   | College                       | University of Babylon                                                                                                                                                                                                                 |                                              |
| Module Leader                                                                                                      | Name: DR.HUSSAM JABBAR                                                                                                                                                                                                                                                                                                                                                                                                     |                               | e-mail                                                                                                                                                                                                                                | E-mail<br>Eng.hussam.jabbar@uobabylon.end.iq |
| Module Leader's Acad. Title                                                                                        | Professor                                                                                                                                                                                                                                                                                                                                                                                                                  | Module Leader's Qualification |                                                                                                                                                                                                                                       | Ph.D.                                        |
| Module Tutor                                                                                                       | Name (if available)                                                                                                                                                                                                                                                                                                                                                                                                        |                               | e-mail                                                                                                                                                                                                                                | E-mail<br>Eng.hussam.jabbar@uobabylon.end.iq |
| Peer Reviewer Name                                                                                                 | Name                                                                                                                                                                                                                                                                                                                                                                                                                       | e-mail                        | E-mail<br>Eng.hussam.jabbar@uobabylon.end.iq                                                                                                                                                                                          |                                              |
| Scientific Committee Approval Date                                                                                 | 01/06/2023                                                                                                                                                                                                                                                                                                                                                                                                                 | Version Number                | 1.0                                                                                                                                                                                                                                   |                                              |
| Relation with other Modules<br>العلاقة مع المواد الدراسية الأخرى                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                            |                               |                                                                                                                                                                                                                                       |                                              |
| Prerequisite module                                                                                                | None                                                                                                                                                                                                                                                                                                                                                                                                                       |                               | Semester                                                                                                                                                                                                                              |                                              |
| Co-requisites module                                                                                               | None                                                                                                                                                                                                                                                                                                                                                                                                                       |                               | Semester                                                                                                                                                                                                                              |                                              |
| Module Aims, Learning Outcomes and Indicative Contents<br>أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية |                                                                                                                                                                                                                                                                                                                                                                                                                            |                               |                                                                                                                                                                                                                                       |                                              |
| Module Aims<br>أهداف المادة الدراسية                                                                               | The year in the architectural study represents an important transitional stage that moves the student from the stage of preparing designs of an abstract defining nature (which is represented in the first grade) to a more comprehensive stage in defining what architecture is (utility, durability and beauty), with an emphasis on the concept of local privacy and integration with the context and urban landscape. |                               |                                                                                                                                                                                                                                       |                                              |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية                                                          | 1- Acquaint the student with art and architecture<br>2- To familiarize the student with the capabilities of scientific criticism<br>3- Know the basics of architectural design<br>4- Identify the elements of architectural design                                                                                                                                                                                         |                               |                                                                                                                                                                                                                                       |                                              |

|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                            | 5- Learn the principles of architectural design                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Indicative Contents<br>المحتويات الإرشادية | <p>Developing the capabilities of the student's artistic (10hrs)<br/>architectural creative thinking by developing his architectural information (10hrs)<br/>developing his drawing capabilities (20hrs)<br/>building his architectural memory by viewing architectural products with pictures and videos. (10hrs)<br/>The student's memory is also developed by feeding it with the biographies of international architects and architecture masters (10hrs)<br/>Learn advanced drawing programs such as AutoCAD (15hrs)<br/>Learn how to show by professional hand drawing and in different styles, watercolors, acrylic markers, etc (15hrs)<br/>Performing all that is required of drawing class assignments from drawing projects in all their stages and showing them at a high professional level through manual drawing or by means of computer program (30hrs)</p> |

| Student Workload (SWL)<br>الحمل الدراسي للطالب                          |     |                                                                     |    |
|-------------------------------------------------------------------------|-----|---------------------------------------------------------------------|----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطالب خلال الفصل       | 180 | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطالب أسبوعياً       | 12 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطالب خلال الفصل | 120 | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطالب أسبوعياً | 8  |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطالب خلال الفصل              | 300 |                                                                     |    |

| Module Evaluation for <b>Architectural Drawing III</b><br>تقييم المادة الدراسية للرسم المعماري |              |             |                |                 |                           |
|------------------------------------------------------------------------------------------------|--------------|-------------|----------------|-----------------|---------------------------|
|                                                                                                |              | Time/Number | Weight (Marks) | Week Due        | Relevant Learning Outcome |
| Formative assessment                                                                           | Quizzes/     |             |                |                 |                           |
|                                                                                                | Assignments  | 5           | 25% (25)       | 2, 5, 7, 10, 11 |                           |
|                                                                                                | Projects     | 4           | 20% (15)       | Continuous      |                           |
|                                                                                                | Report       |             |                |                 |                           |
| Summative assessment                                                                           | Midterm Exam | 2           | 10% (10)       | 8, 14           |                           |
|                                                                                                | Final Exam   |             |                |                 | All                       |
| Total assessment                                                                               |              |             | 50% (50 Marks) |                 |                           |

| Delivery Plan (Weekly Syllabus)<br>المنهاج الأسبوعي النظري |                  |
|------------------------------------------------------------|------------------|
|                                                            | Material Covered |

| Delivery Plan (Weekly Lab. Syllabus)<br>المنهاج الأسبوعي للمختبر |                                                                                                       |
|------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
|                                                                  | Material Covered                                                                                      |
|                                                                  | The first part of the curriculum takes nine hours per week during the first semester                  |
|                                                                  | An introductory lecture/exhibition of students' drawings explaining the different techniques          |
|                                                                  | 2D Drawings - Drawing horizontal plans of different buildings (PLANS) and site plans.                 |
|                                                                  | Drawing vertical sections (SECTIONS) with an emphasis on the method of displaying in ink and colors.  |
|                                                                  | Drawing and displaying interfaces (ELEVATIONS).                                                       |
|                                                                  | Regular semester exam                                                                                 |
|                                                                  | Three-dimensional drawings - isometric / types and uses / drawing cuboids and vaults                  |
|                                                                  | Isometric drawing of a cylinder and a wall with openings of different shapes / a composition exercise |

|  |                                                                                                                                        |
|--|----------------------------------------------------------------------------------------------------------------------------------------|
|  | that includes different shapes, with drawing levels                                                                                    |
|  | Drawing the dome and other shapes, drawing a more complex composition.                                                                 |
|  | Complex isometric test.                                                                                                                |
|  | Internal isometric-, method of drawing, examples, exercise, assignment The student draws an internal isometric for his design project. |
|  | External Isometric + Homework The student draws an external isometric for his design project.                                          |
|  | Perspective - Lecture on the concept and its properties. Perspective with two vanishing points. The cube in different positions.       |
|  | The cube in perspective - a complement to the other cases - drawing other simple shapes.                                               |
|  | Perspective - the multiple vanishing points, the geometric composition in perspective.                                                 |
|  | Exam - Geometric composition in perspective.                                                                                           |

| Learning and Teaching Resources<br>مصادر التعلم والتدريس |                                                                         |                           |
|----------------------------------------------------------|-------------------------------------------------------------------------|---------------------------|
|                                                          | Text                                                                    | Available in the Library? |
| Required Texts                                           | -Site construction Details<br>-Pencil Sketching<br>-Perspective Drawing | Yes                       |
| Recommended Texts                                        |                                                                         | No                        |
| Websites                                                 |                                                                         |                           |

| Grading Scheme<br>مخطط الدرجات |                  |                     |           |                                       |
|--------------------------------|------------------|---------------------|-----------|---------------------------------------|
| Group                          | Grade            | التقدير             | Marks (%) | Definition                            |
| Success Group<br>(50 - 100)    | A - Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                                | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                                | C - Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                                | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                                | E - Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 - 49)         | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                                | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |
|                                |                  |                     |           |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

| Module Information<br>معلومات المادة الدراسية |                     |                          |                                                                                                                                                                                                                                                                                          |                       |   |
|-----------------------------------------------|---------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---|
| Module Title                                  | Freehand Drawing II |                          | Module Delivery                                                                                                                                                                                                                                                                          |                       |   |
| Module Type                                   | C                   |                          | <div><input checked="" type="checkbox"/> Theory</div> <div>Lecture</div> <div><input checked="" type="checkbox"/> Lab</div> <div><input type="checkbox"/> Tutorial</div> <div><input checked="" type="checkbox"/> Practical</div> <div><input checked="" type="checkbox"/> Seminar</div> |                       |   |
| Module Code                                   | Arch2313            |                          |                                                                                                                                                                                                                                                                                          |                       |   |
| ECTS Credits                                  | 5                   |                          |                                                                                                                                                                                                                                                                                          |                       |   |
| SWL (hr/sem)                                  | 125                 |                          |                                                                                                                                                                                                                                                                                          |                       |   |
| Module Level                                  |                     | UGII                     | Semester of Delivery                                                                                                                                                                                                                                                                     |                       | 3 |
| Administering Department                      |                     | Architecture Engineering | College                                                                                                                                                                                                                                                                                  | University of Babylon |   |

|                                    |                     |                               |        |
|------------------------------------|---------------------|-------------------------------|--------|
| Module Leader                      | Name                | e-mail                        | E-mail |
| Module Leader's Acad. Title        | Professor           | Module Leader's Qualification | Ph.D.  |
| Module Tutor                       | Name (if available) | e-mail                        | E-mail |
| Peer Reviewer Name                 | Name                | e-mail                        | E-mail |
| Scientific Committee Approval Date | 01/06/2023          | Version Number                | 1.0    |

| Relation with other Modules<br>العلاقة مع المواد الدراسية الأخرى |      |          |  |
|------------------------------------------------------------------|------|----------|--|
| Prerequisite module                                              | None | Semester |  |
| Co-requisites module                                             | None | Semester |  |

| Module Aims, Learning Outcomes and Indicative Contents<br>أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                                                                               | <p>Developing student skills in the use of watercolors, posters, pastels and oil colors, using advanced techniques.</p> <p>Developing the student's ability to control the implementation of complex shapes and advanced color techniques.</p> <p>Practical practice of how to show projects through color perspectives and benefit from them in design materials.</p> <p>Strengthening the student's skills in converting what is going on in his mind into an image that can be perceived through free drawing. Introducing the student to the most important Iraqi and Arab artistic movements and artists. This comes through theoretical lectures accompanied by a visual display of their work, as well as the visits that students make to places where artworks are displayed inside Iraq. Introducing the student to ceramic materials and sculpture and his sense of mass through some exercises in clay and gypsum that help him In increasing his skills in showing his designed projects, especially the stereoscopic ones, and giving them a more beautiful and close to reality image.</p> <p>Implementation of graphic drawings, watercolors, and others for selected regions in the region in which the student resides. Work was done with the design works at the beginning of the third academic year.</p> <p>Optional fee: Additional hours practiced by the student of his choice and from all academic levels, where the following is confirmed: The student chooses a subject in which he participates in the exhibitions held in the department and with the various techniques. Provides additional assignments for the various subjects that the student has completed. - Providing the student with experiences in addition to his general academic curriculum.</p> |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية                                                          | <ol style="list-style-type: none"> <li>1- Acquaint the student with art and architecture</li> <li>2- To familiarize the student with the capabilities of scientific criticism</li> <li>3- Know the basics of architectural design</li> <li>4- Identify the elements of architectural design</li> <li>5- Learn the principles of architectural design</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Indicative Contents<br>المحتويات الإرشادية                                                                         | <p>Study theories of art extensively and broadly (8hrs)</p> <p>Learn about artistic practices of all kinds (8hrs)</p> <p>Studying different drawing methods by getting acquainted with watercolors, acrylics and markers (8hrs)</p> <p>Engaging in development courses for artistic faculties in drawing Methods (8hrs)</p> <p>Taking remedial courses in technical planning methods and studying scale drawing (8hrs)</p> <p>Accurately perform the duties assigned to the student and try to repeat them (8hrs)</p> <p>Trying to draw silent life constantly (8hrs)</p> <p>Drawing the largest number of paintings of buildings and architectural structures and</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

|  |                                                                                                                                              |
|--|----------------------------------------------------------------------------------------------------------------------------------------------|
|  | discovering the resulting errors (7hrs)<br>Studying technical drawing methods through the computer through different drawing programs (7hrs) |
|--|----------------------------------------------------------------------------------------------------------------------------------------------|

### Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategies | The strategies of the curriculum are divided into first: distant goals such as building a generation of architects capable of innovation that has high architectural taste and intermediate goals through building contemporary architectural thought that is able to combine contemporary, preservation and close goals through developing the student's architectural talents and providing them with intellectual and technical tools. |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Student Workload (SWL)

الحمل الدراسي للطلاب

|                                                                         |     |                                                                    |     |
|-------------------------------------------------------------------------|-----|--------------------------------------------------------------------|-----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطلاب خلال الفصل       | 105 | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطلاب أسبوعيا       | 7   |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطلاب خلال الفصل | 70  | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطلاب أسبوعيا | 4.6 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطلاب خلال الفصل              | 175 |                                                                    |     |

### Module Evaluation

تقييم المادة الدراسية

| As                   |                 | Time/Number | Weight (Marks)   | Week Due   | Relevant Learning Outcome |
|----------------------|-----------------|-------------|------------------|------------|---------------------------|
| Formative assessment | Quizzes         |             |                  |            |                           |
|                      | Assignments     | 2           | 30% (30)         | 2, 12      | LO # 3, 4, 6 and 7        |
|                      | Projects / Lab. | 3           | 40% (40)         | Continuous |                           |
|                      |                 |             |                  |            |                           |
| Summative assessment | Midterm Exam    | 2 hr        | 30% (30)         | 7          | LO # 1-7                  |
|                      |                 |             |                  |            | All                       |
| Total assessment     |                 |             | 100% (100 Marks) |            |                           |

### Delivery Plan (Weekly Syllabus)

المناهج الأسبوعي النظري

### Delivery Plan (Weekly Lab. Syllabus)

المناهج الأسبوعي للمختبر

| Week    | Material Covered                                                                     |
|---------|--------------------------------------------------------------------------------------|
|         | The first part of the curriculum takes Four hours per week during the first semester |
| Week 1  | Figures Studying: Drawing figures                                                    |
| Week 2  | Drawing by using the colors                                                          |
| Week 3  | Drawing Perspective for a building                                                   |
| Week 4  | Drawing different types of floors                                                    |
| Week 5  | Examination                                                                          |
| Week 6  | Definition of the principles of modern painting                                      |
| Week 7  | Eliciting the colors :two – coloured ; three coloured                                |
| Week 8  | Eliciting the tones                                                                  |
| Week 9  | Drawing modern boards                                                                |
| Week 10 | In details, studying the landscape                                                   |
| Week 11 | Describing the principles of the perspective in building                             |
| Week 12 | Drawing perspective for certain building                                             |
| Week 13 | Examination                                                                          |

|         |                                                                                                           |
|---------|-----------------------------------------------------------------------------------------------------------|
| Week 14 | Figures Studying: Drawing figures                                                                         |
| Week 15 | Drawing by using the colors                                                                               |
| Week    | Material Covered<br>The Second part of the curriculum takes Four hours per week during the first semester |
| Week 1  | Drawing perspective for building reflecting the architectural details and surrounding environment.        |
| Week 2  | Drawing the civil engineering and the surrounding building                                                |
| Week 3  | Drawing the engineering gollape building foursing on the garedens around it                               |
| Week 4  | Drawing the electrical engineering department using the wooden colours                                    |
| Week 5  | Exercise on drawing the types of techniques used in reflection                                            |
| Week 6  | Drawing buildings with their environments using the watercolors                                           |
| Week 7  | Drawing same building appearances and evaluate the stage                                                  |
| Week 8  | The stage of sculpturing by using clay ,formation clay shapes                                             |
| Week 9  | Making some shapes by using the clay                                                                      |
| Week 10 | Drawing inner perspective for certain building                                                            |
| Week 11 | Drawing inner perspective for the building of civil building                                              |
| Week 12 | Drawing perspective for high building by using the wooden colours                                         |
| Week 13 | Drawing perspective for building reflecting the architectural details and surrounding environment.        |

#### Learning and Teaching Resources

مصادر التعلم والتدريس

|                   | Text                                          | Available in the Library? |
|-------------------|-----------------------------------------------|---------------------------|
| Required Texts    | Book of free manual drawing<br>Figure Drawing | Yes                       |
| Recommended Texts |                                               | No                        |
| Websites          |                                               |                           |

#### Grading Scheme

مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A - Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                             | C - Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                             | E - Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 - 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |
|                             |                  |                     |           |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

## SECOND-YEAR\ SECOND -SEMESTER

### MODULE DESCRIPTION FORM

#### Module Information

معلومات المادة الدراسية

|                                    |                           |                          |                               |                                                                                                                                                                                                                 |      |
|------------------------------------|---------------------------|--------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Module Title                       | English language II       |                          |                               | Module Delivery                                                                                                                                                                                                 |      |
| Module Type                        | B                         |                          |                               | <input checked="" type="checkbox"/> Theory<br>Lecture<br><input type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial<br><input type="checkbox"/> Practical<br><input checked="" type="checkbox"/> Seminar |      |
| Module Code                        | UOBAB2302                 |                          |                               |                                                                                                                                                                                                                 |      |
| ECTS Credits                       | 2                         |                          |                               |                                                                                                                                                                                                                 |      |
| SWL (hr/sem)                       | 50                        |                          |                               |                                                                                                                                                                                                                 |      |
| Module Level                       |                           | UGx11 1                  | Semester of Delivery          |                                                                                                                                                                                                                 | 4    |
| Administering Department           |                           | Architecture Engineering | College                       | University of Babylon                                                                                                                                                                                           |      |
| Module Leader                      | Professor: Muayad Mingher |                          | e-mail                        | eng. muayad mingher@uobabylon. edu. Iq                                                                                                                                                                          |      |
| Module Leader’s Acad. Title        |                           | Professor                | Module Leader’s Qualification |                                                                                                                                                                                                                 | M.A. |
| Module Tutor                       | Name (if available)       |                          | e-mail                        | eng. muayad mingher@uobabylon. edu. Iq                                                                                                                                                                          |      |
| Peer Reviewer Name                 |                           | Name                     | e-mail                        | eng. muayad mingher@uobabylon. edu. Iq                                                                                                                                                                          |      |
| Scientific Committee Approval Date |                           | 01/06/2023               | Version Number                |                                                                                                                                                                                                                 | 1.0  |

#### Relation with other Modules

العلاقة مع المواد الدراسية الأخرى

|                      |      |          |  |
|----------------------|------|----------|--|
| Prerequisite module  | None | Semester |  |
| Co-requisites module | None | Semester |  |

#### Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                      | At this stage, the student completes what he was exposed to in the first stage, with an emphasis on the need to encourage the student to dialogue, use language, and build terminology. In the second stage, a broader focus is placed on writing and reading texts, especially architectural ones, by electing some simplified architectural articles to be read, and then asking the student to write a summary, a special opinion, or a discussion of the subject. Parts of two books are approved, and English grammar is learned.                                  |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية | <ol style="list-style-type: none"> <li>1. Raise the students' recognition of correct utilization of English grammar in productive skills.</li> <li>2. Make better their speaking capacity in English both in terms of fluency and understandability.</li> <li>3. Provide oral presentations and receive feedback on their performance.</li> <li>4. Growing their reading speed and comprehension. Students' reading fluency skills will be improved through extensive reading.</li> </ol>                                                                               |
| Indicative Contents<br>المحتويات الإرشادية                | <ol style="list-style-type: none"> <li>1. Building up the students' skills in reflective practice and creative thinking.</li> <li>2. Enhancing the students' capacities in creating sentences.</li> <li>3. Having knowledge of some important features of British norms when making efficient the students' skillfulness in using the language .</li> <li>4. Using the correct pronunciation and grammatical constructions.</li> <li>5. Expanding their vocabulary to communicate their ideas.</li> <li>6. Activity participation is demanded from students.</li> </ol> |

#### Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

|            |                                                                                  |
|------------|----------------------------------------------------------------------------------|
| Strategies | The main strategy that will be adopted in delivering this module is to encourage |
|------------|----------------------------------------------------------------------------------|

|  |                                                                                                                                                                                                                                                                                                             |
|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering type of simple experiments involving some sampling activities that are interesting to the students. |
|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Student Workload (SWL)<br>الحمل الدراسي للطلاب                          |     |                                                                    |     |
|-------------------------------------------------------------------------|-----|--------------------------------------------------------------------|-----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطلاب خلال الفصل       | 33  | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطلاب أسبوعيا       | 2.2 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطلاب خلال الفصل | 17  | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطلاب أسبوعيا | 1.2 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطلاب خلال الفصل              | 200 |                                                                    |     |

| Module Evaluation<br>تقييم المادة الدراسية |                 |                  |                |          |                           |
|--------------------------------------------|-----------------|------------------|----------------|----------|---------------------------|
|                                            |                 | Time/Number      | Weight (Marks) | Week Due | Relevant Learning Outcome |
| Formative assessment                       | Quizzes         | 1                | 5% (5)         | 5, 10    | LO #1, 2, 10 and 11       |
|                                            | Assignments     | 1                | 5% (5)         | 2, 12    | LO # 3, 4, 6 and 7        |
|                                            | Projects / Lab. | /                | /              | /        | /                         |
|                                            | Report          | /                | /              | /        | /                         |
| Summative assessment                       | Midterm Exam    | 2 hr             | 40% (40)       | 7        | LO # 1-7                  |
|                                            | Final Exam      | 3hr              | 50% (50)       | 16       | All                       |
| Total assessment                           |                 | 100% (100 Marks) |                |          |                           |

| Delivery Plan (Weekly Syllabus)<br>المنهاج الأسبوعي النظري |                                                                                             |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------|
|                                                            | Material Covered                                                                            |
| Week 1                                                     | Unit One: Getting to know you/ Grammar;. Vocabulary; Skills Work and Everyday English       |
| Week 2                                                     | Unit Two: The way we live/ Grammar;. Vocabulary; Skills Work and Everyday English           |
| Week 3                                                     | Unit Three: It all went wrong/ Grammar;. Vocabulary; Skills Work and Everyday English       |
| Week 4                                                     | Unit Four: Let's go shopping!/ Grammar;. Vocabulary; Skills Work and Everyday English       |
| Week 5                                                     | Unit Five: What do you want to do?/Grammar;. Vocabulary; Skills Work and Everyday English   |
| Week 6                                                     | Unit Six: Tell me! What's it like? / Grammar;. Vocabulary; Skills Work and Everyday English |
| Week 7                                                     | Unit Seven: Famous couples/ Grammar;. Vocabulary; Skills Work and Everyday English          |
| Week 8                                                     | Midterm Exam.                                                                               |
| Week 9                                                     | Unit Eight: Going places/ Grammar;. Vocabulary; Skills Work and Everyday English            |
| Week 10                                                    | Unit Nine: Scared to death/ Grammar;. Vocabulary; Skills Work and Everyday English          |
| Week 11                                                    | Unit Ten: Things changed the world/Grammar;. Vocabulary; Skills Work and Everyday English   |
| Week 12                                                    | Unit Eleven: Dreams and reality/ Grammar;. Vocabulary; Skills Work and Everyday English     |
| Week 13                                                    | Unit Twelve: Earning a living/ Grammar;. Vocabulary; Skills Work and Everyday English       |
| Week 14                                                    | Unit Thirteen : Love you and leave you/ Grammar; Vocabulary; Skills Work and Every English  |
| Week 15                                                    | Examination                                                                                 |

| Delivery Plan (Weekly Lab. Syllabus)<br>المنهاج الأسبوعي للمختبر |
|------------------------------------------------------------------|
|------------------------------------------------------------------|

| Learning and Teaching Resources<br>مصادر التعلم والتدريس |                                             |                           |
|----------------------------------------------------------|---------------------------------------------|---------------------------|
|                                                          | Text                                        | Available in the Library? |
| Required Texts                                           | New Headway Pre-intermediate Student's Book | No                        |

|                   |                                                                                            |    |
|-------------------|--------------------------------------------------------------------------------------------|----|
| Recommended Texts | English Grammar in Use.                                                                    | No |
| Websites          | <a href="https://www.academia.edu">https://www.academia.edu</a> › New_headway_intermedi... |    |

### Grading Scheme مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A – Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 – 89   | Above average with some errors        |
|                             | C – Good         | جيد                 | 70 – 79   | Sound work with notable errors        |
|                             | D – Satisfactory | متوسط               | 60 – 69   | Fair but with major shortcomings      |
|                             | E – Sufficient   | مقبول               | 50 – 59   | Work meets minimum criteria           |
| Fail Group<br>(0 – 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |
|                             |                  |                     |           |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

### Module Information معلومات المادة الدراسية

|                                    |                              |                          |                               |                                                                                                                                                                                                                            |       |
|------------------------------------|------------------------------|--------------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Module Title                       | Logic and design Methodology |                          |                               | Module Delivery                                                                                                                                                                                                            |       |
| Module Type                        | S                            |                          |                               | <input checked="" type="checkbox"/> Theory<br>Lecture<br><input type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial<br><input checked="" type="checkbox"/> Practical<br><input checked="" type="checkbox"/> Seminar |       |
| Module Code                        | Arch2406                     |                          |                               |                                                                                                                                                                                                                            |       |
| ECTS Credits                       | 2                            |                          |                               |                                                                                                                                                                                                                            |       |
| SWL (hr/sem)                       | 50                           |                          |                               |                                                                                                                                                                                                                            |       |
| Module Level                       |                              | UGII                     | Semester of Delivery          |                                                                                                                                                                                                                            | 4     |
| Administering Department           |                              | Architecture Engineering | College                       | University of Babylon                                                                                                                                                                                                      |       |
| Module Leader                      | Name:Dr.hussam jabbar        |                          | e-mail                        | E-mail<br>eng.hussam.jabbar@uobabylon.edu.iq                                                                                                                                                                               |       |
| Module Leader's Acad. Title        |                              | Professor                | Module Leader's Qualification |                                                                                                                                                                                                                            | Ph.D. |
| Module Tutor                       | Name (if available)          |                          | e-mail                        | E-mail                                                                                                                                                                                                                     |       |
| Peer Reviewer Name                 |                              | Name                     | e-mail                        | E-mail                                                                                                                                                                                                                     |       |
| Scientific Committee Approval Date |                              | 01/06/2023               | Version Number                |                                                                                                                                                                                                                            | 1.0   |

### Relation with other Modules العلاقة مع المواد الدراسية الأخرى

|                      |      |          |  |
|----------------------|------|----------|--|
| Prerequisite module  | None | Semester |  |
| Co-requisites module | None | Semester |  |

### Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                      | The course: Make the student aware of the various disciplines and topics that play an important role in the design process, while clarifying the basic design principles, processes and factors involved in the design act, as well as teaching the student to apply logic for the purpose of enabling him to think clearly and reach sound conclusions and inferences to avoid improper and wrong thinking in his work. my design.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية | The production of an engineer familiar with the world of surveying since the beginning of the architectural design<br>The production of an architect who has the ability to implement his projects<br>An architecture student should be familiar with surveying devices of all kinds and models<br>Developing expertise and engineering professionalism for the student of architecture                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Indicative Contents<br>المحتويات الإرشادية                | :Traditional design method : Craft Evolution , Design by Drawing , an example of the second era , How drawings produce design , System Designing , Socio-technical Innovation , The strength of a design process by drawing compared with the craft process (3h)<br>design process , The first map used by architects in the RIBA architectural Practice and Management Handbook (1965). , Markus/ Maver map of the design process<br>Arch. Design Process: 1- Briefing , 2-Analysis , 3-Synthesis , 4-Evaluation , 5-Design . (3h)<br>-1Briefing : Site selection, Program formulation, Data collection, Problem Definitions, examples study (3h)<br>The Architectural Design Problem has three Main Variables (Context -Need - Form( A continuation of the previous lecture : 1-2 Contexts , 1-3 Form , 2-Analysis , 3-Synthesis , 4-Evaluation , 5-Design<br>Design methodology : 1- What is design? , Design method First design methodology: designer brain as black box ology outline, the sequence of three steps : Quick analysis , Creating concept , Developing. (3h)<br>A continuation of the previous lecture , Black box method main features , Disadvantages (3h)<br>Second design methodology: designer brain as glass box , Main methodology characters Advantages , Disadvantages.<br>Compromising methodology , The purpose of compromising methodology , Methodology characters . Main steps of design conclude : analysis , composing, evaluate, develop (2h) |

#### Learning and Teaching Strategies

##### استراتيجيات التعلم والتعليم

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategies | <ol style="list-style-type: none"> <li>1. Graduating highly qualified architects.</li> <li>2. Building the leadership qualities of its graduates by teaching them how to lead, solve construction problems, and the ability to choose appropriate construction details and materials.</li> <li>3. Instilling a spirit of imagination in graduates and a commitment to acquiring knowledge and serving the community.</li> <li>4. Contribute to project ideas, conduct research for the benefit and development of society, and involve students to work on projects that are under implementation.</li> <li>5. Taking care of the outstanding students and encouraging them to use their skills.</li> <li>6-Focusing on correct scientific, academic, professional and high ethical standards within the university campus. and encourage sharing</li> </ol> |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### Student Workload (SWL)

##### الحمل الدراسي للطالب

|                                                                         |    |                                                                     |     |
|-------------------------------------------------------------------------|----|---------------------------------------------------------------------|-----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطالب خلال الفصل       | 33 | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطالب أسبوعياً       | 2.2 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطالب خلال الفصل | 17 | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطالب أسبوعياً | 1.2 |

|                                                            |    |
|------------------------------------------------------------|----|
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطلاب خلال الفصل | 50 |
|------------------------------------------------------------|----|

Module Evaluation  
تقييم المادة الدراسية

|                      |                 | Time/Number | Weight (Marks)   | Week Due | Relevant Learning Outcome |
|----------------------|-----------------|-------------|------------------|----------|---------------------------|
| Formative assessment | Quizzes         | .5          | 10% (10)         | 5, 10    | LO #1, 2, 10 and 11       |
|                      | Assignments     |             |                  |          |                           |
|                      | Projects / Lab. |             |                  |          |                           |
|                      | Report          | 1           | 10% (10)         | 13       | LO # 5, 8 and 10          |
| Summative assessment | Midterm Exam    | 2 hr        | 30% (30)         | 7        | LO # 1-7                  |
|                      | Final Exam      | 2hr         | 50% (50)         | 16       | All                       |
| Total assessment     |                 |             | 100% (100 Marks) |          |                           |

Delivery Plan (Weekly Syllabus)  
المنهاج الاسبوعي النظري

|              | Material Covered                                                                                                                                                                                                                                                                         |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Week 1       | The aim The aim of logic and design methodology , the processes and factors that are involved in a design act , terms interpretation : what is architecture , Design , Design methodology , method , logic .                                                                             |
| Week 2 -3    | Design and architectural design : Design Definition , Meaning and purpose of design , Hierarchy of human needs , The Concerns of design , Design problem dimensions: Need , Context , Form , Architectural design , Design constraints , Principles of “Good” Design                     |
| Week 4       | : Traditional design method : Craft Evolution , Design by Drawing , an example of the second era , How drawings produce design , System Designing , Socio-technical Innovation , The strength of a design process by drawing compared with the craft process                             |
| Week 5 -6    | design process , The first map used by architects in the RIBA architectural Practice and Management Handbook (1965). , Markus/ Maver map of the design process                                                                                                                           |
| Week 7       | Arch. Design Process: 1- Briefing , 2-Analysis , 3-Synthesis , 4-Evaluation , 5-Design .<br>1- Briefing : Site selection, Program formulation, Data collection, Problem Definitions, examples study<br>The Architectural Design Problem has three Main Variables (Context -Need - Form ) |
| Week 8       | A continuation of the previous lecture : 1-2 Contexts , 1-3 Form , 2-Analysis , 3-Synthesis , 4-Evaluation , 5-Design                                                                                                                                                                    |
| Week 9       | Design methodology : 1- What is design? , Design method First design methodology: designer brain as black box ology outline, the sequence of three steps : Quick analysis , Creating concept , Developing .                                                                              |
| Week 10      | A continuation of the previous lecture , Black box method main features , Disadvantages                                                                                                                                                                                                  |
| Week 11      | Second design methodology: designer brain as glass box , Main methodology characters Advantages , Disadvantages .                                                                                                                                                                        |
| Week 12 - 13 | Compromising methodology , The purpose of compromising methodology , Methodology characters . Main steps of design conclude : analysis , composing, evaluate, develop                                                                                                                    |
| Week 14      | Analysis Phase , Issues to be analyzed include : User requirements - site analysis - designer - spaces requirements . : Site analysis objectives , Site elements include two essential sets .                                                                                            |
| Week 15      | Issues to be analyzed include : User - site - designer - spaces requirements .<br>User analysis : Determine user goals , User consideration and expressions factors                                                                                                                      |

Delivery Plan (Weekly Lab. Syllabus)  
المنهاج الاسبوعي للمختبر

| Material Covered |
|------------------|
|------------------|

Learning and Teaching Resources  
مصادر التعلم والتدريس

| Text | Available in the Library? |
|------|---------------------------|
|------|---------------------------|

|                   |  |     |
|-------------------|--|-----|
| Required Texts    |  | Yes |
| Recommended Texts |  | No  |
| Websites          |  |     |

#### Grading Scheme

مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A - Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                             | C - Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                             | E - Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 - 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |
|                             |                  |                     |           |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

|                   |  |     |
|-------------------|--|-----|
| Required Texts    |  | Yes |
| Recommended Texts |  | No  |
| Websites          |  |     |

#### Grading Scheme

مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A - Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                             | C - Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                             | E - Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 - 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |
|                             |                  |                     |           |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

#### Module Information

معلومات المادة الدراسية

|              |                                       |                                                                                                  |
|--------------|---------------------------------------|--------------------------------------------------------------------------------------------------|
| Module Title | <u><b>Building Construction V</b></u> | Module Delivery                                                                                  |
| Module Type  | <u>Core</u>                           | <input checked="" type="checkbox"/> Theory<br>Lecture<br><input checked="" type="checkbox"/> Lab |
| Module Code  | <u><b>Arch2414</b></u>                |                                                                                                  |

|                                    |                     |                                                                                                                        |                                                   |
|------------------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| ECTS Credits                       | 4                   | <input type="checkbox"/> Tutorial<br><input checked="" type="checkbox"/> Practical<br><input type="checkbox"/> Seminar |                                                   |
| SWL (hr/sem)                       | 100                 |                                                                                                                        |                                                   |
| Module Level                       | UGxIII              | Semester of Delivery                                                                                                   | 4                                                 |
| Administering Department           | Type Dept. Code     | College                                                                                                                | Type College Code                                 |
| Module Leader                      | Name:rewa menaf     | e-mail                                                                                                                 | E-mail;<br>eng.rawaaabd.alshalah@uobabylon.edu.iq |
| Module Leader's Acad. Title        | Professor           | Module Leader's Qualification                                                                                          | Ph.D.                                             |
| Module Tutor                       | Name (if available) | e-mail                                                                                                                 | E-mail                                            |
| Peer Reviewer Name                 | Name                | e-mail                                                                                                                 | E-mail                                            |
| Scientific Committee Approval Date | 01/06/2023          | Version Number                                                                                                         | 1.0                                               |

#### Relation with other Modules

العلاقة مع المواد الدراسية الأخرى

|                      |      |          |   |
|----------------------|------|----------|---|
| Prerequisite module  | None | Semester | 5 |
| Co-requisites module | None | Semester | 6 |

#### Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                      | <p>This topic aims to introduce the student to the importance of the structural structure of the building and its close relationship to the design process, as choosing the appropriate structural structure for each building interacts directly with its function and the external final form of it. The lesson also deals with the importance of architectural details and the role they play when designing the building and their importance in the implementation process for the purpose of ensuring the correct implementation. The designer also increases the accuracy of highlighting the basic features of the building. The types of plans produced by the architect, such as design, execution and laboratory plans, are also discussed And the plans of the reality of the situation and what each of them needs in order to be appropriate for the purpose for which they were found. The scientific side of the subject includes teaching the student the method of producing and organizing detailed executive plans in general and how to produce them, and focusing on multi-storey structural buildings made of reinforced concrete and medium-bridge structures made of steel. In addition to introducing the student to the scheme arrangement and coding system, which is the (CL / SFB) system, as it is one of the global systems in engineering consulting offices and agencies. The subject includes theoretical lectures and applied projects that include three semester exams and daily practical exams inside the ceremony. Where it includes topics of theoretical lectures shown in the schedule for each week during the first and second semesters and their application through three projects. Reinforced concrete material with all its details. As for the third project, it includes training students to prepare detailed plans for a medium-sized construction hall made of steel with all its details. It is possible to allocate the last three weeks of each design project to make detailed plans for a selected part of the project, which provides an opportunity for students to learn about various construction solutions. and integrated details</p> |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية | <p>students to learn about various construction solutions. and integrated details The student will be able to understand the structural materials and then know how to employ what he learned in his designs after knowing about the nature of the use of each of the structural systems, whether bricks, wood, cement or iron and the types of their structures</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Indicative Contents<br>المحتويات الإرشادية                | <p>architectural creative thinking by developing his architectural information (20hrs)<br/> developing his drawing capabilities (10hrs)<br/> building his architectural memory by viewing architectural products with pictures and videos. ( 10hrs)<br/> Learn how to show by professional hand drawing and in different styles, watercolors, acrylic markers, etc (10hrs)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

|  |                                                                                                                                                                                         |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Performing all that is required of drawing class assignments from drawing projects in all their stages and showing them at a high professional level through manual drawing)<br>(30hrs) |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

|            |                                                                                                                                                                                                                                                                                                                                  |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategies | <p>Knowledge and understanding</p> <p>a- Knowledge and understanding</p> <p>To learn how to design the required system</p> <p>To learn how to describe the structural system</p> <p>To learn what are the international standards and measurements regarding the installation material</p> <p>To learn how to draw a diagram</p> |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Student Workload (SWL)

الحمل الدراسي للطلاب

|                                                                         |     |                                                                    |     |
|-------------------------------------------------------------------------|-----|--------------------------------------------------------------------|-----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطلاب خلال الفصل       | 63  | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطلاب أسبوعيا       | 4.2 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطلاب خلال الفصل | 37  | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطلاب أسبوعيا | 2.4 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطلاب خلال الفصل              | 100 |                                                                    |     |

### Module Evaluation

تقييم المادة الدراسية

|                      |                 | Time/Number | Weight (Marks)   | Week Due | Relevant Learning Outcome |
|----------------------|-----------------|-------------|------------------|----------|---------------------------|
| Formative assessment | Quizzes         | .5          | 10% (10)         | 5, 10    | LO #1, 2, 10 and 11       |
|                      | Assignments     | 2           | 10% (10)         | 2, 12    | LO # 3, 4, 6 and 7        |
|                      | Projects / Lab. |             |                  |          |                           |
|                      | Report          | 1           | 10% (10)         | 13       | LO # 5, 8 and 10          |
| Summative assessment | Midterm Exam    | 2 hr        | 10% (20)         | 7        | LO # 1-7                  |
|                      | Final Exam      | 2hr         | 50% (50)         | 16       | All                       |
| Total assessment     |                 |             | 100% (100 Marks) |          |                           |

### Delivery Plan (Weekly Syllabus)

المناهج الأسبوعي النظري

|  |                  |
|--|------------------|
|  | Material Covered |
|--|------------------|

### Delivery Plan (Weekly Lab. Syllabus)

المناهج الأسبوعي للمختبر

|        |                                                                                                                                                                                                                           |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | Material Covered                                                                                                                                                                                                          |
| Week 1 | Introducing the student to the objectives of the subject, its importance and its direct relationship to architectural design, the importance of architectural details, arranging and producing plans in their final form. |
| Week 2 | The nature of the building, the structural units and elements that make up the building, the structural (construction) systems, how to assemble the structural elements, and the types of joints between them.            |
| Week 3 | Concrete and reinforced concrete material, its types and structural specifications, and how can we benefit from its properties and ability to form                                                                        |
| Week 4 | Structural behaviors of the basic structural parts and elements that make up the building in terms of the structural structure, the forces affecting it, and the nature of the loads to which the building is exposed.    |
| Week 5 | Types of stresses applied to the building, stress intensity, moments and forces affecting the building and their impact                                                                                                   |
| Week 6 | Foundations, their requirements, principles of selection, types, differential settlement, why it occurs and how it is treated, with a focus on the raft foundation, methods of tanking protection, and how to             |

|         |                                                                                                                                                                                                                                                                          |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | construct basements for multi-storey buildings.                                                                                                                                                                                                                          |
| Week 7  | Systems of loads transmission in vertical buildings                                                                                                                                                                                                                      |
| Week 8  | Roof structures Functional requirements for roofs, their classification methods, their building materials, characteristics of each type, and their structural materials Trusses and Girders                                                                              |
| Week 9  | Shell Roofs: Their types, construction materials, and construction methods. Folded slab (plates) Roofs. Grid Roof structures.                                                                                                                                            |
| Week 10 | Shell Roofs: Their types, construction materials, and construction methods. Folded slab (plates) Roofs - Grid Roof structures                                                                                                                                            |
| Week 11 | Tension roof structures Air stabiield or pneumatic Roof structures                                                                                                                                                                                                       |
| Week 12 | The external envelop of the building, which includes the external walls of the building and its functional and environmental requirements and types, and focus on the systems of the external walls of multi-storey buildings, which are infill's, cladding, and facing. |
| Week 13 | Internal divisions: These include partitions and walls that are light in weight and easy to remove and install                                                                                                                                                           |
| Week 14 | Ceilings, suspended ceiling and suspended floors                                                                                                                                                                                                                         |

### Learning and Teaching Resources

مصادر التعلم والتدريس

|                   | Text                                    | Available in the Library? |
|-------------------|-----------------------------------------|---------------------------|
| Required Texts    | Steveth edition R.barry architect v 1-5 | Yes                       |
| Recommended Texts |                                         | No                        |
| Websites          |                                         |                           |

### Grading Scheme

مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A - Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                             | C - Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                             | E - Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 - 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |
|                             |                  |                     |           |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

### Module Information

معلومات المادة الدراسية

| Module Title | Freehand Drawing III | Module Delivery                                                                                                                                                                                                                       |
|--------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Type  | C                    | <input checked="" type="checkbox"/> Theory<br>Lecture<br><input checked="" type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial<br><input checked="" type="checkbox"/> Practical<br><input checked="" type="checkbox"/> Seminar |
| Module Code  | Arch2413             |                                                                                                                                                                                                                                       |
| ECTS Credits | 4                    |                                                                                                                                                                                                                                       |
| SWL (hr/sem) | 100                  |                                                                                                                                                                                                                                       |
| Module Level | UGII                 | Semester of Delivery                                                                                                                                                                                                                  |
|              |                      | 4                                                                                                                                                                                                                                     |

|                                    |                          |                               |                       |
|------------------------------------|--------------------------|-------------------------------|-----------------------|
| Administering Department           | Architecture Engineering | College                       | University of Babylon |
| Module Leader                      | Name                     | e-mail                        | E-mail                |
| Module Leader's Acad. Title        | Professor                | Module Leader's Qualification | Ph.D.                 |
| Module Tutor                       | Name (if available)      | e-mail                        | E-mail                |
| Peer Reviewer Name                 | Name                     | e-mail                        | E-mail                |
| Scientific Committee Approval Date | 01/06/2023               | Version Number                | 1.0                   |

| Relation with other Modules<br>العلاقة مع المواد الدراسية الأخرى |      |          |  |
|------------------------------------------------------------------|------|----------|--|
| Prerequisite module                                              | None | Semester |  |
| Co-requisites module                                             | None | Semester |  |

| Module Aims, Learning Outcomes and Indicative Contents<br>أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                                                                               | <p>Developing student skills in the use of watercolors, posters, pastels and oil colors, using advanced techniques.</p> <p>Developing the student's ability to control the implementation of complex shapes and advanced color techniques.</p> <p>Practical practice of how to show projects through color perspectives and benefit from them in design materials.</p> <p>Strengthening the student's skills in converting what is going on in his mind into an image that can be perceived through free drawing. Introducing the student to the most important Iraqi and Arab artistic movements and artists. This comes through theoretical lectures accompanied by a visual display of their work, as well as the visits that students make to places where artworks are displayed inside Iraq. Introducing the student to ceramic materials and sculpture and his sense of mass through some exercises in clay and gypsum that help him In increasing his skills in showing his designed projects, especially the stereoscopic ones, and giving them a more beautiful and close to reality image.</p> <p>Implementation of graphic drawings, watercolors, and others for selected regions in the region in which the student resides. Work was done with the design works at the beginning of the third academic year.</p> <p>Optional fee: Additional hours practiced by the student of his choice and from all academic levels, where the following is confirmed: The student chooses a subject in which he participates in the exhibitions held in the department and with the various techniques. Provides additional assignments for the various subjects that the student has completed. - Providing the student with experiences in addition to his general academic curriculum.</p> |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية                                                          | <ol style="list-style-type: none"> <li>1- Acquaint the student with art and architecture</li> <li>2- To familiarize the student with the capabilities of scientific criticism</li> <li>3- Know the basics of architectural design</li> <li>4- Identify the elements of architectural design</li> <li>5- Learn the principles of architectural design</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Indicative Contents<br>المحتويات الإرشادية                                                                         | <p>Study theories of art extensively and broadly (8hrs)</p> <p>Learn about artistic practices of all kinds (8hrs)</p> <p>Studying different drawing methods by getting acquainted with watercolors, acrylics and markers (8hrs)</p> <p>Engaging in development courses for artistic faculties in drawing Methods (8hrs)</p> <p>Taking remedial courses in technical planning methods and studying scale drawing (8hrs)</p> <p>Accurately perform the duties assigned to the student and try to repeat them (8hrs)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

|  |                                                                                                                                                                                                                                                                                    |
|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Trying to draw silent life constantly (8hrs)<br>Drawing the largest number of paintings of buildings and architectural structures and discovering the resulting errors (7hrs)<br>Studying technical drawing methods through the computer through different drawing programs (7hrs) |
|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Learning and Teaching Strategies

#### استراتيجيات التعلم والتعليم

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategies | The strategies of the curriculum are divided into first: distant goals such as building a generation of architects capable of innovation that has high architectural taste and intermediate goals through building contemporary architectural thought that is able to combine contemporary, preservation and close goals through developing the student's architectural talents and providing them with intellectual and technical tools. |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Student Workload (SWL)

#### الحمل الدراسي للطلاب

|                                                                         |     |                                                                     |     |
|-------------------------------------------------------------------------|-----|---------------------------------------------------------------------|-----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطلاب خلال الفصل       | 105 | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطلاب أسبوعياً       | 7   |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطلاب خلال الفصل | 70  | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطلاب أسبوعياً | 4.6 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطلاب خلال الفصل              | 175 |                                                                     |     |

### Module Evaluation

#### تقييم المادة الدراسية

| As                   |                 | Time/Number | Weight (Marks)   | Week Due   | Relevant Learning Outcome |
|----------------------|-----------------|-------------|------------------|------------|---------------------------|
| Formative assessment | Quizzes         |             |                  |            |                           |
|                      | Assignments     | 2           | 30% (30)         | 2, 12      | LO # 3, 4, 6 and 7        |
|                      | Projects / Lab. | 3           | 40% (40)         | Continuous |                           |
| Summative assessment | Midterm Exam    | 2 hr        | 30% (30)         | 7          | LO # 1-7                  |
|                      |                 |             |                  |            | All                       |
| Total assessment     |                 |             | 100% (100 Marks) |            |                           |

### Delivery Plan (Weekly Syllabus)

#### المنهاج الأسبوعي النظري

### Delivery Plan (Weekly Lab. Syllabus)

#### المنهاج الأسبوعي للمختبر

| Week   | Material Covered                                                                     |
|--------|--------------------------------------------------------------------------------------|
|        | The first part of the curriculum takes Four hours per week during the first semester |
| Week 1 | Figures Studying: Drawing figures                                                    |
| Week 2 | Drawing by using the colors                                                          |
| Week 3 | Drawing Perspective for a building                                                   |
| Week 4 | Drawing different types of floors                                                    |
| Week 5 | Examination                                                                          |
| Week 6 | Definition of the principles of modern painting                                      |
| Week 7 | Eliciting the colors :two – coloured ; three coloured                                |
| Week 8 | Eliciting the tones                                                                  |
| Week 9 | Drawing modern boards                                                                |

|         |                                                                                                           |
|---------|-----------------------------------------------------------------------------------------------------------|
| Week 10 | In details, studying the landscape                                                                        |
| Week 11 | Describing the principles of the perspective in building                                                  |
| Week 12 | Drawing perspective for certain building                                                                  |
| Week 13 | Examination                                                                                               |
| Week 14 | Figures Studying: Drawing figures                                                                         |
| Week 15 | Drawing by using the colors                                                                               |
| Week    | Material Covered<br>The Second part of the curriculum takes Four hours per week during the first semester |
| Week 1  | Drawing perspective for building reflecting the architectural details and surrounding environment.        |
| Week 2  | Drawing the civil engineering and the surrounding building                                                |
| Week 3  | Drawing the engineering gollape building foursing on the garedens around it                               |
| Week 4  | Drawing the electrical engineering department using the wooden colours                                    |
| Week 5  | Exercise on drawing the types of techniques used in reflection                                            |
| Week 6  | Drawing buildings with their environments using the watercolors                                           |
| Week 7  | Drawing same building appearances and evaluate the stage                                                  |
| Week 8  | The stage of sculpturing by using clay ,formation clay shapes                                             |
| Week 9  | Making some shapes by using the clay                                                                      |
| Week 10 | Drawing inner perspective for certain building                                                            |
| Week 11 | Drawing inner perspective for the building of civil building                                              |
| Week 12 | Drawing perspective for high building by using the wooden colours                                         |
| Week 13 | Drawing perspective for building reflecting the architectural details and surrounding environment.        |

#### Learning and Teaching Resources

مصادر التعلم والتدريس

|                   | Text                                          | Available in the Library? |
|-------------------|-----------------------------------------------|---------------------------|
| Required Texts    | Book of free manual drawing<br>Figure Drawing | Yes                       |
| Recommended Texts |                                               | No                        |
| Websites          |                                               |                           |

#### Grading Scheme

مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A - Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                             | C - Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                             | E - Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 - 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

#### Module Information

معلومات المادة الدراسية

|              |                         |                 |
|--------------|-------------------------|-----------------|
| Module Title | Architectural Design IV | Module Delivery |
|--------------|-------------------------|-----------------|

|                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                               |                                                                                                                                                                                                                                       |                                              |
|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Module Type                                                                                                        | C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                               | <input checked="" type="checkbox"/> Theory<br>Lecture<br><input checked="" type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial<br><input checked="" type="checkbox"/> Practical<br><input checked="" type="checkbox"/> Seminar |                                              |
| Module Code                                                                                                        | Arch2311                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                               |                                                                                                                                                                                                                                       |                                              |
| ECTS Credits                                                                                                       | 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                               |                                                                                                                                                                                                                                       |                                              |
| SWL (hr/sem)                                                                                                       | 225                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                               |                                                                                                                                                                                                                                       |                                              |
| Module Level                                                                                                       | UGII                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Semester of Delivery          |                                                                                                                                                                                                                                       | 3                                            |
| Administering Department                                                                                           | Architecture Engineering                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | College                       | University of Babylon                                                                                                                                                                                                                 |                                              |
| Module Leader                                                                                                      | Name: Dr.Hussam Jabbar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                               | e-mail                                                                                                                                                                                                                                | E-mail<br>Eng.hussam.jabbar@uobabylon.end.iq |
| Module Leader's Acad. Title                                                                                        | Professor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Module Leader's Qualification |                                                                                                                                                                                                                                       | Ph.D.                                        |
| Module Tutor                                                                                                       | Name (if available)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                               | e-mail                                                                                                                                                                                                                                | E-mail<br>Eng.hussam.jabbar@uobabylon.end.iq |
| Peer Reviewer Name                                                                                                 | Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | e-mail                        | E-mail<br>Eng.hussam.jabbar@uobabylon.end.iq                                                                                                                                                                                          |                                              |
| Scientific Committee Approval Date                                                                                 | 01/06/2023                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Version Number                | 1.0                                                                                                                                                                                                                                   |                                              |
| Relation with other Modules<br>العلاقة مع المواد الدراسية الأخرى                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                               |                                                                                                                                                                                                                                       |                                              |
| Prerequisite module                                                                                                | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                               | Semester                                                                                                                                                                                                                              |                                              |
| Co-requisites module                                                                                               | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                               | Semester                                                                                                                                                                                                                              |                                              |
| Module Aims, Learning Outcomes and Indicative Contents<br>أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                               |                                                                                                                                                                                                                                       |                                              |
| Module Aims<br>أهداف المادة الدراسية                                                                               | The year in the architectural study represents an important transitional stage that moves the student from the stage of preparing designs of an abstract defining nature (which is represented in the first grade) to a more comprehensive stage in defining what architecture is (utility, durability and beauty), with an emphasis on the concept of local privacy and integration with the context and urban landscape.                                                                                                                                                                                                                                                                                                                                                                                                                                    |                               |                                                                                                                                                                                                                                       |                                              |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية                                                          | 1- Acquaint the student with art and architecture<br>2- To familiarize the student with the capabilities of scientific criticism<br>3- Know the basics of architectural design<br>4- Identify the elements of architectural design<br>5- Learn the principles of architectural design                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                               |                                                                                                                                                                                                                                       |                                              |
| Indicative Contents<br>المحتويات الإرشادية                                                                         | Developing the capabilities of the student's artistic (10hrs)<br>architectural creative thinking by developing his architectural information (10hrs)<br>developing his drawing capabilities (20hrs)<br>building his architectural memory by viewing architectural products with pictures and videos. (10hrs)<br>The student's memory is also developed by feeding it with the biographies of international architects and architecture masters (10hrs)<br>Learn advanced drawing programs such as AutoCAD (15hrs)<br>Learn how to show by professional hand drawing and in different styles, watercolors, acrylic markers, etc (15hrs)<br>Performing all that is required of drawing class assignments from drawing projects in all their stages and showing them at a high professional level through manual drawing or by means of computer program (30hrs) |                               |                                                                                                                                                                                                                                       |                                              |
| Student Workload (SWL)<br>الحمل الدراسي للطالب                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                               |                                                                                                                                                                                                                                       |                                              |

|                                                                         |     |                                                                    |    |
|-------------------------------------------------------------------------|-----|--------------------------------------------------------------------|----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطلاب خلال الفصل       | 180 | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطلاب أسبوعيا       | 12 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطلاب خلال الفصل | 120 | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطلاب أسبوعيا | 8  |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطلاب خلال الفصل              | 300 |                                                                    |    |

#### Module Evaluation for Architectural Design IV

تقييم المادة الدراسية للتصميم المعماري

|                      |              | Time/Number | Weight (Marks) | Week Due            | Relevant Learning Outcome |
|----------------------|--------------|-------------|----------------|---------------------|---------------------------|
| Formative assessment | Quizzes/     |             |                |                     |                           |
|                      | Assignments  | 10          | 25% (25)       | 2, 4,5,6,7, 9,10,11 |                           |
|                      | Projects     | 2           | 15% (15)       | Continuous          |                           |
|                      | Report       |             |                |                     |                           |
| Summative assessment | Midterm Exam | 2           | 10%            | 12,14               |                           |
|                      | Final Exam   |             |                |                     | All                       |
| Total assessment     |              |             | 50% (50 Marks) |                     |                           |

#### Delivery Plan (Weekly Syllabus)

المناهج الأسبوعي النظري

|  |                  |
|--|------------------|
|  | Material Covered |
|--|------------------|

#### Delivery Plan (Weekly Lab. Syllabus)

المناهج الأسبوعي للمختبر

|            |                                                                                                                                                                                                                                                                                                                                                                       |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | Material Covered<br>The first part of the curriculum takes nine hours per week during the first semester                                                                                                                                                                                                                                                              |
| Week 1-2   | A simple introductory project, the aim of which is to retrieve the information that the student was exposed to in the first stage and to create a mental warm-up to transfer the student from the abstract stage to a stage characterized by realism and functionalism. During this period, the summer homework required of the students is discussed and evaluated.  |
| Week 3 -14 | The project of designing a residence house aims to identify the design principles of specialized buildings. By preparing the initial and then final designs for the project, which takes about 6-8 weeks, while the second stage includes preparing the signature and compilation designs and some main components, which takes about 2-4 weeks. The student repeats. |

#### Learning and Teaching Resources

مصادر التعلم والتدريس

|                   | Text                                                                                 | Available in the Library? |
|-------------------|--------------------------------------------------------------------------------------|---------------------------|
| Required Texts    | -Neufert Architecture s Data<br>-Architectural Design Data<br>-Landscape Architectre | Yes                       |
| Recommended Texts |                                                                                      | No                        |
| Websites          |                                                                                      |                           |

#### Grading Scheme

مخطط الدرجات

| Group                       | Grade         | التقدير | Marks (%) | Definition                     |
|-----------------------------|---------------|---------|-----------|--------------------------------|
| Success Group<br>(50 - 100) | A - Excellent | امتياز  | 90 - 100  | Outstanding Performance        |
|                             | B - Very Good | جيد جدا | 80 - 89   | Above average with some errors |

|                        |                  |                     |         |                                       |
|------------------------|------------------|---------------------|---------|---------------------------------------|
|                        | C - Good         | جيد                 | 70 - 79 | Sound work with notable errors        |
|                        | D - Satisfactory | متوسط               | 60 - 69 | Fair but with major shortcomings      |
|                        | E - Sufficient   | مقبول               | 50 - 59 | Work meets minimum criteria           |
| Fail Group<br>(0 – 49) | FX – Fail        | راسب (قيد المعالجة) | (45-49) | More work required but credit awarded |
|                        | F – Fail         | راسب                | (0-44)  | Considerable amount of work required  |
|                        |                  |                     |         |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

| Module Information<br>معلومات المادة الدراسية |                                  |                          |                                                                                                                                                                                                                                                     |                       |       |
|-----------------------------------------------|----------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------|
| Module Title                                  | Principle of Computer Graphic II |                          | Module Delivery                                                                                                                                                                                                                                     |                       |       |
| Module Type                                   | B                                |                          | <input checked="" type="checkbox"/> Theory<br><input type="checkbox"/> Lecture<br><input checked="" type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial<br><input type="checkbox"/> Practical<br><input checked="" type="checkbox"/> Seminar |                       |       |
| Module Code                                   | Arch2415                         |                          |                                                                                                                                                                                                                                                     |                       |       |
| ECTS Credits                                  | 4                                |                          |                                                                                                                                                                                                                                                     |                       |       |
| SWL (hr/sem)                                  | 100                              |                          |                                                                                                                                                                                                                                                     |                       |       |
| Module Level                                  |                                  | UGII                     | Semester of Delivery                                                                                                                                                                                                                                |                       | 4     |
| Administering Department                      |                                  | Architecture Engineering | College                                                                                                                                                                                                                                             | University of Babylon |       |
| Module Leader                                 | Dr. Hussam Jabbar Abass          |                          | e-mail                                                                                                                                                                                                                                              |                       |       |
| Module Leader's Acad. Title                   |                                  | Professor                | Module Leader's Qualification                                                                                                                                                                                                                       |                       | Ph.D. |
| Module Tutor                                  | Name (if available)              |                          | e-mail                                                                                                                                                                                                                                              | E-mail                |       |
| Peer Reviewer Name                            |                                  | Name                     | e-mail                                                                                                                                                                                                                                              | E-mail                |       |
| Scientific Committee Approval Date            |                                  | 01/06/2023               | Version Number                                                                                                                                                                                                                                      | 1.0                   |       |

| Relation with other Modules<br>العلاقة مع المواد الدراسية الأخرى |      |  |          |
|------------------------------------------------------------------|------|--|----------|
| Prerequisite module                                              | None |  | Semester |
| Co-requisites module                                             | None |  | Semester |

| Module Aims, Learning Outcomes and Indicative Contents<br>أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                                                                               | Autodesk 3Ds Max Design Essentials Training provides a thorough grounding in 3Ds Max Design Software.<br>On completing the course you will be able to produce basic 3D modeling, apply material, rendering the scene and create animation.                                                                                                                                                                                                                                                                                                                                |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية                                                          | <p>The primary objective of this course is to teach students the essentials of working in 3D using an array of features and tools. This course teaches new users the basics of creating, embellishing, and animating 3D scenes. After completing this course, student should be able to do:</p> <ol style="list-style-type: none"> <li>1. Model objects using a variety of techniques</li> <li>2. Design and apply materials</li> <li>3. Adjust basic lighting</li> <li>4. Animate simple objects</li> <li>5. Build and animate simple, effective environments</li> </ol> |

|                                            |                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                            | 6. To enhance the computing skills of the students.                                                                                                                                                                                                                                                                         |
| Indicative Contents<br>المحتويات الإرشادية | 1- Making 3D Modelling and designs for various buildings and converting them into 3D shapes that mimic reality (10hu)<br>2- Simulating reality in terms of placing raw materials, real natural lighting, and cameras (10hu)<br>3- Produce photos and videos (10hu)<br>4- Adding movements to the scene to make it realistic |

| Learning and Teaching Strategies<br>استراتيجيات التعلم والتعليم |                                                                                                                                         |
|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Strategies                                                      | 1- The student develop his abilities by making a lot of architectural Models<br>2- To develop the scene in terms of camera and lighting |

| Student Workload (SWL)<br>الحمل الدراسي للطالب                          |    |                                                                    |     |
|-------------------------------------------------------------------------|----|--------------------------------------------------------------------|-----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطالب خلال الفصل       | 48 | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطالب أسبوعيا       | 3.2 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطالب خلال الفصل | 27 | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطالب أسبوعيا | 1.8 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطالب خلال الفصل              | 75 |                                                                    |     |

| Module Evaluation<br>تقييم المادة الدراسية |                                         |             |                  |          |                           |
|--------------------------------------------|-----------------------------------------|-------------|------------------|----------|---------------------------|
|                                            |                                         | Time/Number | Weight (Marks)   | Week Due | Relevant Learning Outcome |
| Formative assessment                       | الاختبارات<br>Quizzes                   | 1           | 14% (14)         | 5, 10    | LO #1, 2, 10 and 11       |
|                                            | Projects                                |             | 8% (8)           |          | LO # 5, 8 and 10          |
|                                            | المختبر<br>Lab                          |             | 8% (8)           |          | LO # 5, 8 and 10          |
|                                            | واجبات بيتية<br>online assignment       |             |                  |          |                           |
|                                            | واجبات داخل الكلية<br>onsite assignment |             | 10% (10)         |          | LO # 5, 8 and 10          |
|                                            | Report                                  |             |                  |          |                           |
|                                            | حلقات دراسية                            |             |                  |          |                           |
| Summative assessment                       | Midterm Exam                            | 2 hr        | 10% (10)         | 7        | LO # 1-7                  |
|                                            | Final Exam                              | 3hr         | 50% (50)         | 16       | All                       |
| Total assessment                           |                                         |             | 100% (100 Marks) |          |                           |

| Delivery Plan (Weekly Lab. Syllabus)<br>المنهاج الأسبوعي للمختبر |                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                  | Material Covered                                                                                                                                                                                                                                                                                                          |
| Week 1                                                           | INTRODUCTION , Introduction — The 3DS Max Interface <ul style="list-style-type: none"> <li>Navigate the 3DS Max User Interface and Workspace</li> <li>Transforming Objects Using Gizmos</li> <li>Graphite Modeling Tools Set</li> <li>Command Panel</li> <li>Time Slider and Track Bar</li> <li>File Managemen</li> </ul> |
| Week 2                                                           | 3DS Max First Project, <ul style="list-style-type: none"> <li>Setting Up a Project Workflow</li> <li>Clock Modeling</li> </ul>                                                                                                                                                                                            |

|         |                                                                                                                                                                                                                                                                                                       |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | <ul style="list-style-type: none"> <li>• Spline Modifier</li> <li>• Bringing It All Together</li> </ul>                                                                                                                                                                                               |
| Week 3  | Modeling in 3DS Max:<br>Architecture Model - Part 1 <ul style="list-style-type: none"> <li>• Units Setup</li> <li>• Importing a CAD Drawing</li> <li>• Creating the Walls</li> <li>• Creating the Doors</li> <li>• Creating the Window</li> <li>• Adding the Floor and Ceiling</li> </ul>             |
| Week 4  | Modeling in 3DS Max: <ul style="list-style-type: none"> <li>• Architecture Model - Part 2</li> <li>• Modeling the Couch</li> <li>• Modeling the Lounge Chair</li> </ul>                                                                                                                               |
| Week 5  | Introduction to Animation <ul style="list-style-type: none"> <li>• Animating the Ball</li> <li>• Refining the Animation</li> </ul>                                                                                                                                                                    |
| Week 6  | Animation Principles <ul style="list-style-type: none"> <li>• Anticipation and Momentum in Knife Throwing</li> </ul>                                                                                                                                                                                  |
| Week 7  | Character Poly Modeling -Part 1 <ul style="list-style-type: none"> <li>• Setting Up the Scene</li> <li>• Soldier Modeling</li> </ul>                                                                                                                                                                  |
| Week 8  | Character Poly Modeling -Part 2 <ul style="list-style-type: none"> <li>• Completing the Main Body</li> <li>• Creating the Accessories</li> <li>• Putting On the Boot</li> <li>• Creating the Hands</li> </ul>                                                                                         |
| Week 9  | Character Poly Modeling -Part 3 <ul style="list-style-type: none"> <li>• Creating the Head</li> <li>• Merging and Attaching the Head's Accessories</li> </ul>                                                                                                                                         |
| Week 10 | Examination                                                                                                                                                                                                                                                                                           |
| Week 11 | Introduction to the Materials: Interiors and Furniture <ul style="list-style-type: none"> <li>• The Slate Material Editor</li> <li>• Material Types</li> <li>• Mental Ray Material Types</li> <li>• Shades</li> <li>• Mapping the Couch and Chair</li> <li>• Mapping the Window and Doors</li> </ul>  |
| Week 12 | Textures and UV Workflows: The Soldier <ul style="list-style-type: none"> <li>• UV Unwrapping</li> <li>• Seaming the Rest of the Body</li> <li>• Applying the Color Map</li> <li>• Applying the Bump Map</li> <li>• Applying the Specular Map</li> </ul>                                              |
| Week 13 | Character Studio: Rigging <ul style="list-style-type: none"> <li>• Character Studio Workflow</li> <li>• Associating a Biped with the Soldier Model</li> </ul> Character Studio: Animation <ul style="list-style-type: none"> <li>• Animating the Soldier</li> </ul>                                   |
| Week 14 | Introduction to Lighting: Interior Lighting <ul style="list-style-type: none"> <li>• Three-Point Lighting</li> <li>• 3DS Max Lights</li> <li>• Lighting the Still Life in the Interior Space</li> <li>• selecting a Shadow Type</li> <li>• Atmospheres and Effects</li> <li>• Light Lister</li> </ul> |

|         |                                                                                                                                                                                                                                                                                                                                                                                               |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Week 15 | 3DS Max Rendering <ul style="list-style-type: none"> <li>• Rendering Setup</li> <li>• Cameras</li> <li>• Safe Frames</li> <li>• Ray traced Reflections and Refractions.</li> <li>• Rendering the Interior and Furniture</li> </ul> MENTAL RAY <ul style="list-style-type: none"> <li>• Mental Ray Renderer</li> <li>• Final Gather with Mental Ray</li> <li>• Mental Ray Materials</li> </ul> |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

|  |                  |
|--|------------------|
|  | Material Covered |
|--|------------------|

### Learning and Teaching Resources

مصادر التعلم والتدريس

|                   | Text                                                                                                                                                               | Available in the Library? |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Required Texts    | <ul style="list-style-type: none"> <li>• User's Reference Volume II Published By: Autodesk, Inc.</li> </ul>                                                        | No                        |
| Recommended Texts | <ul style="list-style-type: none"> <li>• Autodesk 3ds Max 2025 Basics Guide By Kelly L. Murdock</li> <li>• Autodesk 3ds Max 2022 Fundamentals By ASCENT</li> </ul> | No                        |
| Websites          |                                                                                                                                                                    |                           |

### Grading Scheme

مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A – Excellent    | امتياز              | 90 – 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 – 89   | Above average with some errors        |
|                             | C – Good         | جيد                 | 70 – 79   | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 – 69   | Fair but with major shortcomings      |
|                             | E – Sufficient   | مقبول               | 50 – 59   | Work meets minimum criteria           |
| Fail Group<br>(0 – 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |
|                             |                  |                     |           |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

### Module Information

معلومات المادة الدراسية

|              |                          |                                                                                                                                                                                                                                       |
|--------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Title | Architectural Drawing IV | Module Delivery                                                                                                                                                                                                                       |
| Module Type  | C                        | <input checked="" type="checkbox"/> Theory<br>Lecture<br><input checked="" type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial<br><input checked="" type="checkbox"/> Practical<br><input checked="" type="checkbox"/> Seminar |
| Module Code  | Arch2312                 |                                                                                                                                                                                                                                       |
| ECTS Credits | 3                        |                                                                                                                                                                                                                                       |
| SWL (hr/sem) | 75                       |                                                                                                                                                                                                                                       |
|              |                          |                                                                                                                                                                                                                                       |

|                                    |                          |                               |                                              |
|------------------------------------|--------------------------|-------------------------------|----------------------------------------------|
| Module Level                       | UGII                     | Semester of Delivery          | 3                                            |
| Administering Department           | Architecture Engineering | College                       | University of Babylon                        |
| Module Leader                      | Name: DR. HUSSAM JABBAR  | e-mail                        | E-mail<br>Eng.hussam.jabbar@uobabylon.end.iq |
| Module Leader's Acad. Title        | Professor                | Module Leader's Qualification | Ph.D.                                        |
| Module Tutor                       | Name (if available)      | e-mail                        | E-mail<br>Eng.hussam.jabbar@uobabylon.end.iq |
| Peer Reviewer Name                 | Name                     | e-mail                        | E-mail<br>Eng.hussam.jabbar@uobabylon.end.iq |
| Scientific Committee Approval Date | 01/06/2023               | Version Number                | 1.0                                          |

Relation with other Modules  
العلاقة مع المواد الدراسية الأخرى

|                      |      |          |  |
|----------------------|------|----------|--|
| Prerequisite module  | None | Semester |  |
| Co-requisites module | None | Semester |  |

Module Aims, Learning Outcomes and Indicative Contents  
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                      | The year in the architectural study represents an important transitional stage that moves the student from the stage of preparing designs of an abstract defining nature (which is represented in the first grade) to a more comprehensive stage in defining what architecture is (utility, durability and beauty), with an emphasis on the concept of local privacy and integration with the context and urban landscape.                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية | <ol style="list-style-type: none"> <li>1- Acquaint the student with art and architecture</li> <li>2- To familiarize the student with the capabilities of scientific criticism</li> <li>3- Know the basics of architectural design</li> <li>4- Identify the elements of architectural design</li> <li>5- Learn the principles of architectural design</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Indicative Contents<br>المحتويات الإرشادية                | <p>Developing the capabilities of the student's artistic (10hrs)<br/>architectural creative thinking by developing his architectural information (10hrs)<br/>developing his drawing capabilities (20hrs)<br/>building his architectural memory by viewing architectural products with pictures and videos. (10hrs)<br/>The student's memory is also developed by feeding it with the biographies of international architects and architecture masters (10hrs)<br/>Learn advanced drawing programs such as AutoCAD (15hrs)<br/>Learn how to show by professional hand drawing and in different styles, watercolors, acrylic markers, etc (15hrs)<br/>Performing all that is required of drawing class assignments from drawing projects in all their stages and showing them at a high professional level through manual drawing or by means of computer program (30hrs)</p> |

Student Workload (SWL)  
الحمل الدراسي للطالب

|                                                                         |     |                                                                     |    |
|-------------------------------------------------------------------------|-----|---------------------------------------------------------------------|----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطالب خلال الفصل       | 180 | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطالب أسبوعياً       | 12 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطالب خلال الفصل | 120 | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطالب أسبوعياً | 8  |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطالب خلال الفصل              | 300 |                                                                     |    |

Module Evaluation for **Architectural Drawing IV**  
تقييم المادة الدراسية للرسم المعماري

|                      |              | Time/Number | Weight (Marks) | Week Due        | Relevant Learning Outcome |
|----------------------|--------------|-------------|----------------|-----------------|---------------------------|
| Formative assessment | Quizzes/     |             |                |                 |                           |
|                      | Assignments  | 5           | 25% (25)       | 2, 5, ,7 ,10,11 |                           |
|                      | Projects     | 4           | 20% (15)       | Continuous      |                           |
|                      | Report       |             |                |                 |                           |
| Summative assessment | Midterm Exam | 2           | 10% (10)       | 8, 14           |                           |
|                      | Final Exam   |             |                |                 | All                       |
| Total assessment     |              |             | 50% (50 Marks) |                 |                           |

### Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

|  |                  |
|--|------------------|
|  | Material Covered |
|--|------------------|

### Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

|  |                                                                                                                                                           |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Material Covered                                                                                                                                          |
|  | The first part of the curriculum takes nine hours per week during the first semester                                                                      |
|  | An introductory lecture/exhibition of students' drawings explaining the different techniques                                                              |
|  | 2D Drawings - Drawing horizontal plans of different buildings (PLANS) and site plans.                                                                     |
|  | Drawing vertical sections (SECTIONS) with an emphasis on the method of displaying in ink and colors.                                                      |
|  | Drawing and displaying interfaces (ELEVATIONS).                                                                                                           |
|  | Regular semester exam                                                                                                                                     |
|  | Three-dimensional drawings - isometric / types and uses / drawing cuboids and vaults                                                                      |
|  | Isometric drawing of a cylinder and a wall with openings of different shapes / a composition exercise that includes different shapes, with drawing levels |
|  | Drawing the dome and other shapes, drawing a more complex composition.                                                                                    |
|  | Complex isometric test.                                                                                                                                   |
|  | Internal isometric-, method of drawing, examples, exercise, assignment The student draws an internal isometric for his design project.                    |
|  | External Isometric + Homework The student draws an external isometric for his design project.                                                             |
|  | Perspective - Lecture on the concept and its properties. Perspective with two vanishing points. The cube in different positions.                          |
|  | The cube in perspective - a complement to the other cases - drawing other simple shapes.                                                                  |
|  | Perspective - the multiple vanishing points, the geometric composition in perspective.                                                                    |
|  | Exam - Geometric composition in perspective.                                                                                                              |

### Learning and Teaching Resources

مصادر التعلم والتدريس

|                   | Text                                                                    | Available in the Library? |
|-------------------|-------------------------------------------------------------------------|---------------------------|
| Required Texts    | -Site construction Details<br>-Pencil Sketching<br>-Perspective Drawing | Yes                       |
| Recommended Texts |                                                                         | No                        |
| Websites          |                                                                         |                           |

### Grading Scheme

مخطط الدرجات

| Group                       | Grade         | التقدير | Marks (%) | Definition                     |
|-----------------------------|---------------|---------|-----------|--------------------------------|
| Success Group<br>(50 - 100) | A - Excellent | امتياز  | 90 - 100  | Outstanding Performance        |
|                             | B - Very Good | جيد جدا | 80 - 89   | Above average with some errors |

|                        |                  |                     |         |                                       |
|------------------------|------------------|---------------------|---------|---------------------------------------|
|                        | C - Good         | جيد                 | 70 - 79 | Sound work with notable errors        |
|                        | D - Satisfactory | متوسط               | 60 - 69 | Fair but with major shortcomings      |
|                        | E - Sufficient   | مقبول               | 50 - 59 | Work meets minimum criteria           |
| Fail Group<br>(0 – 49) | FX – Fail        | راسب (قيد المعالجة) | (45-49) | More work required but credit awarded |
|                        | F – Fail         | راسب                | (0-44)  | Considerable amount of work required  |
|                        |                  |                     |         |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

### THIRD-YEAR\ FIRST -SEMESTER MODULE DESCRIPTION FORM

#### Module Information معلومات المادة الدراسية

|                                    |                          |                                                                                                                                                                                                                 |                                                                                    |
|------------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Module Title                       | Structure II             | Module Delivery                                                                                                                                                                                                 |                                                                                    |
| Module Type                        | S                        | <input checked="" type="checkbox"/> Theory<br>Lecture<br><input type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial<br><input checked="" type="checkbox"/> Practical<br><input type="checkbox"/> Seminar |                                                                                    |
| Module Code                        | EnAr St III 3 024 02     |                                                                                                                                                                                                                 |                                                                                    |
| ECTS Credits                       | 2                        |                                                                                                                                                                                                                 |                                                                                    |
| SWL (hr/sem)                       | 50                       |                                                                                                                                                                                                                 |                                                                                    |
| Module Level                       | UGx11 UGIII              | Semester of Delivery                                                                                                                                                                                            | Five                                                                               |
| Administering Department           | Architecture Engineering | College                                                                                                                                                                                                         | Engineering College                                                                |
| Module Leader                      | Hussein talab Al-wetify  | e-mail                                                                                                                                                                                                          | <a href="mailto:eng.hussein.t@uobabylon.edu.iq">eng.hussein.t@uobabylon.edu.iq</a> |
| Module Leader's Acad. Title        | Asst. Professor          | Module Leader's Qualification                                                                                                                                                                                   | Ph.D.                                                                              |
| Module Tutor                       |                          | e-mail                                                                                                                                                                                                          |                                                                                    |
| Peer Reviewer Name                 | N.A                      | e-mail                                                                                                                                                                                                          | N.A                                                                                |
| Scientific Committee Approval Date | 01/06/2023               | Version Number                                                                                                                                                                                                  | 1.0                                                                                |

#### Relation with other Modules العلاقة مع المواد الدراسية الأخرى

|                      |      |          |  |
|----------------------|------|----------|--|
| Prerequisite module  | None | Semester |  |
| Co-requisites module | None | Semester |  |

#### Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                      | This course aims at developing the student's abilities to calculate simple stresses on beams, structural members, and axial bearing members, as well as calculating strains. It also aims to teach the student about stress and the resulting emotions. Teaching the student to draw shear diagrams and bending moments. As well as calculating the compound stresses and addressing the Mohr circle and transferring stresses.                                                                             |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية | 1) The student will be able to calculate all types of stresses resulting from the external loads imposed on it.<br>2) The student will be able to draw shear diagrams and bending moment diagrams.<br>3) Enabling the student at the expense of all kinds of strains and deformations.<br>4) Enabling the student to calculate the axial deformations of all structural members. 5) The student is able to transfer stresses between levels.<br>6) The student will be able to calculate compound stresses. |
| Indicative Contents<br>المحتويات الإرشادية                | <ul style="list-style-type: none"> <li>- Basic concepts and simple stress (3hr.)</li> <li>- Simple strain and deformations of axially loaded (3hr.)</li> <li>- Torsion (3hr.)</li> <li>- Shear force diagrams and bending moment diagrams (3hr.)</li> <li>- Bending stress and shearing stress (3hr.)</li> <li>- Compound stress (2hr.)</li> </ul>                                                                                                                                                          |

#### Learning and Teaching Strategies استراتيجيات التعلم والتعليم

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategies | Adequate explanation of the scientific material and the use of the method of interactive education with students and discussion in all the details of the scientific material and taking many practical and applied examples so that the student is able to absorb the material. Clarifying the scientific lecture using advanced presentation methods such as calculators and screens, and displaying many pictures of engineering projects that are |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

under construction for the student to understand the scientific material.

### Student Workload (SWL)

الحمل الدراسي للطالب

|                                                                         |    |                                                                     |      |
|-------------------------------------------------------------------------|----|---------------------------------------------------------------------|------|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطالب خلال الفصل       | 33 | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطالب أسبوعياً       | 2.2  |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطالب خلال الفصل | 17 | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطالب أسبوعياً | 1.13 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطالب خلال الفصل              | 50 |                                                                     |      |

### Module Evaluation

تقييم المادة الدراسية

| As                   |                 | Time/Number | Weight (Marks)   | Week Due | Relevant Learning Outcome |
|----------------------|-----------------|-------------|------------------|----------|---------------------------|
| Formative assessment | Quizzes         | .5          | 10% (10)         | 5, 10    | LO #1, 2, 10 and 11       |
|                      | Assignments     | 2           | 10% (10)         | 2, 12    | LO # 3, 4, 6 and 7        |
|                      | Projects / Lab. |             |                  |          |                           |
|                      | Report          | 1           | 10% (10)         | 13       | LO # 5, 8 and 10          |
| Summative assessment | Midterm Exam    | 2 hr        | 10% (20)         | 7        | LO # 1-7                  |
|                      | Final Exam      | 3 hr        | 50% (50)         | 16       | All                       |
| Total assessment     |                 |             | 100% (100 Marks) |          |                           |

### Delivery Plan (Weekly Syllabus)

المنهاج الأسبوعي النظري

| Week       | Material Covered                                  |
|------------|---------------------------------------------------|
| Week 1     | Basic concepts and simple stress.                 |
| Week 2-3   | Simple strain and deformations of axially loaded. |
| Week 4-6   | Torsion.                                          |
| Week 7     | Midterm Exam.                                     |
| Week 8-10  | Shear force diagrams and bending moment diagrams. |
| Week 11-12 | Bending stress and shearing stress                |
| Week 13-15 | Compound stress                                   |
| Week 16    | Final Exam.                                       |

### Delivery Plan (Weekly Lab. Syllabus)

المنهاج الأسبوعي للمختبر

| Week | There is no lab. |
|------|------------------|
|------|------------------|

### Learning and Teaching Resources

مصادر التعلم والتدريس

|                   | Text                                                                                                                                    | Available in the Library? |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Required Texts    | Singer (strength of materials).                                                                                                         | Yes                       |
| Recommended Texts | Popov ( introduction to mechanics of solids).                                                                                           | No                        |
| Websites          | <a href="https://www.google.com/search?client=firefox-b-d&amp;q=Popov">https://www.google.com/search?client=firefox-b-d&amp;q=Popov</a> |                           |

### Grading Scheme

مخطط الدرجات

| Group         | Grade         | التقدير | Marks (%) | Definition              |
|---------------|---------------|---------|-----------|-------------------------|
| Success Group | A - Excellent | امتياز  | 90 - 100  | Outstanding Performance |

|                        |                  |                     |         |                                       |
|------------------------|------------------|---------------------|---------|---------------------------------------|
| (50 - 100)             | B - Very Good    | جيد جدا             | 80 - 89 | Above average with some errors        |
|                        | C - Good         | جيد                 | 70 - 79 | Sound work with notable errors        |
|                        | D - Satisfactory | متوسط               | 60 - 69 | Fair but with major shortcomings      |
|                        | E - Sufficient   | مقبول               | 50 - 59 | Work meets minimum criteria           |
| Fail Group<br>(0 - 49) | FX – Fail        | راسب (قيد المعالجة) | (45-49) | More work required but credit awarded |
|                        | F – Fail         | راسب                | (0-44)  | Considerable amount of work required  |
|                        |                  |                     |         |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

| Module Information<br>معلومات المادة الدراسية |                        |                     |                                                                                                                    |                   |
|-----------------------------------------------|------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------|-------------------|
| Module Title                                  | Sanitary Services      |                     | Module Delivery                                                                                                    |                   |
| Module Type                                   | S                      |                     | <div>☑ Theory<br/>Lecture</div> <div>☑ Lab</div> <div>☑ Tutorial</div> <div>☑ Practical</div> <div>☑ Seminar</div> |                   |
| Module Code                                   | En Ar BS 3 025 05      |                     |                                                                                                                    |                   |
| ECTS Credits                                  | 2                      |                     |                                                                                                                    |                   |
| SWL (hr/sem)                                  | 50                     |                     |                                                                                                                    |                   |
| Module Level                                  |                        | UGIII               |                                                                                                                    |                   |
| Administering Department                      |                        | Type Dept. Code     | College                                                                                                            | Type College Code |
| Module Leader                                 | Name: harith Al-Salman |                     | e-mail                                                                                                             | E-mail            |
| Module Leader's Acad. Title                   |                        | Professor           | Module Leader's Qualification                                                                                      |                   |
| Module Tutor                                  |                        | Name (if available) | e-mail                                                                                                             | E-mail            |
| Peer Reviewer Name                            |                        | Name                | e-mail                                                                                                             | E-mail            |
| Scientific Committee Approval Date            |                        | 01/06/2026          | Version Number                                                                                                     | 1.0               |

| Relation with other Modules<br>العلاقة مع المواد الدراسية الأخرى |      |  |          |
|------------------------------------------------------------------|------|--|----------|
| Prerequisite module                                              | None |  | Semester |
| Co-requisites module                                             | None |  | Semester |

| Module Aims, Learning Outcomes and Indicative Contents<br>أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                                                                               | Sanitary Services : Introducing the architectural student to the basic design of health services (designing cold and hot water networks, normal and heavy water and rain water, as well as the principles of waste collection and disposal for low and multi-storey buildings). The student will also learn about the principles of designing swimming pools, bathrooms, and sanitary facilities, and the principles of their perpendicular shedding, methods of mechanical feeding of water, and water drainage systems in them with different possibilities, through a set of live examples chosen for this purpose. |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية                                                          | Knowledge:<br>- Understanding sanitary systems and public health principles.<br>- Knowledge of plumbing materials and standards.<br>Skills:<br>- Layout of basic sanitary service drawings.                                                                                                                                                                                                                                                                                                                                                                                                                            |

|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                            | <ul style="list-style-type: none"> <li>- Coordination between architectural and service systems.</li> </ul> Values: <ul style="list-style-type: none"> <li>- Commitment to public health standards.</li> <li>- Environmental responsibility.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Indicative Contents<br>المحتويات الإرشادية | Sanitary Services <ul style="list-style-type: none"> <li>- Introducing the architectural student to the basic design of health services (designing cold and hot water networks). (3hrs)</li> <li>- normal and heavy water and rain water, as well as the principles of waste collection and disposal for low and multi-storey buildings). (3hrs)</li> <li>- The student will also learn about the principles of designing swimming pools, bathrooms, and sanitary facilities, (3hrs)</li> <li>- and the principles of their perpendicular shedding, methods of mechanical feeding of water, and water drainage systems in them with different possibilities, (3hrs)</li> <li>- through a set of live examples chosen for this purpose. (3hrs)</li> <li>- Swimming pools: - Types - Type - Architectural design, feeding and drainage networks - Design sterilization methods disinfection (3hrs)</li> <li>- Design of bathrooms and sanitary facilities - bath room design (3hrs)</li> <li>- Refuse storage system: The different methods of waste collection in residential buildings and multi-storey buildings and their relationship to the architectural design of those buildings. (3hrs)</li> <li>- Layout of bathroom for different type (3hrs)</li> </ul> |

#### Learning and Teaching Strategies

##### استراتيجيات التعلم والتعليم

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategies | The strategies of the curriculum are divided into first: distant goals such as building a generation of architects capable of innovation that has high architectural taste and intermediate goals through building contemporary architectural thought that is able to combine contemporary, preservation and close goals through developing the student's architectural talents and providing them with intellectual and technical tools |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### Student Workload (SWL)

##### الحمل الدراسي للطالب

|                                                                         |     |                                                                     |     |
|-------------------------------------------------------------------------|-----|---------------------------------------------------------------------|-----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطالب خلال الفصل       | 93  | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطالب أسبوعياً       | 6.2 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطالب خلال الفصل | 57  | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطالب أسبوعياً | 3.8 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطالب خلال الفصل              | 150 |                                                                     |     |

#### Module Evaluation

##### تقييم المادة الدراسية

| As                   |                 | Time/Number | Weight (Marks)   | Week Due | Relevant Learning Outcome |
|----------------------|-----------------|-------------|------------------|----------|---------------------------|
| Formative assessment | Quizzes         | .5          | 10% (10)         | 5, 10    | LO #1, 2, 10 and 11       |
|                      | Assignments     |             |                  |          |                           |
|                      | Projects / Lab. |             |                  |          |                           |
|                      | Report          | 1           | 10% (10)         | 8        |                           |
| Summative assessment | Midterm Exam    | 2 hr        | 30% (30)         | 13       | LO # 1-7                  |
|                      | Final Exam      | 3hr         | 50% (50)         | 15       | All                       |
| Total assessment     |                 |             | 100% (100 Marks) |          |                           |

#### Module Evaluation

##### تقييم المادة الدراسية

|  | Time/Number | Weight (Marks) | Week Due | Relevant Learning |
|--|-------------|----------------|----------|-------------------|
|--|-------------|----------------|----------|-------------------|

| As                   |                 |      |                  | Outcome |
|----------------------|-----------------|------|------------------|---------|
| Formative assessment | Quizzes         | .5   | 10% (10)         | 5, 10   |
|                      | Assignments     |      |                  |         |
|                      | Projects / Lab. |      |                  |         |
|                      | Report          | 1    | 10% (10)         | 8       |
| Summative assessment | Midterm Exam    | 2 hr | 30% (30)         | 13      |
|                      | Final Exam      | 3hr  | 50% (50)         | 15      |
| Total assessment     |                 |      | 100% (100 Marks) |         |

Module Evaluation Services ,Sanitary  
تقييم المادة الدراسية

| As                   | Time/Number     | Weight (Marks) | Week Due         | Relevant Learning Outcome |
|----------------------|-----------------|----------------|------------------|---------------------------|
| Formative assessment | Quizzes         | .5             | 10% (10)         | 5, 10                     |
|                      | Assignments     |                |                  |                           |
|                      | Projects / Lab. |                |                  |                           |
|                      | Report          | 1              | 10% (10)         | 8                         |
| Summative assessment | Midterm Exam    | 2 hr           | 30% (30)         | 13                        |
|                      | Final Exam      | 3hr            | 50% (50)         | 15                        |
| Total assessment     |                 |                | 100% (100 Marks) |                           |

Delivery Plan (Weekly Syllabus)  
المنهاج الاسبوعي النظري

| Week       | Material Covered                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | Sanitary Services : The first part of the curriculum takes two hours per week during the first semester                                                                                                                                                                                                                                                                                                                                                                                           |
| Week 1-8   | Design of hot and cold water networks for single-storey and multi-storey buildings Plumbing: -- Water supply pipe sizing. (Hot and cold water) sanitary installations, types, costs, fixtures, rainwater drainage networks for buildings, drainage system, ventilation networks for sewage pipes for buildings, ventilation systems, types of pipes used in networks, pips material, all of these paragraphs study their relationship to the architectural design of buildings. of different use. |
| Week 9-12  | Swimming pools: - Types - Type - Architectural design, feeding and drainage networks - Design sterilization methods disinfection - Design of bathrooms and sanitary facilities - bath room design                                                                                                                                                                                                                                                                                                 |
| Week 13-14 | Refuse storage system: The different methods of waste collection in residential buildings and multi-storey buildings and their relationship to the architectural design of those buildings.                                                                                                                                                                                                                                                                                                       |
| Week 15-16 | Layout of bathroom for different type                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|            | Material Covered<br>Air- Conditioning Services: The Second part of the curriculum takes two hours per week during the first semester                                                                                                                                                                                                                                                                                                                                                              |

Delivery Plan (Weekly Lab. Syllabus)  
المنهاج الاسبوعي للمختبر

| Week | Material Covered |
|------|------------------|
|------|------------------|

Learning and Teaching Resources  
مصادر التعلم والتدريس

|                   | Text | Available in the Library? |
|-------------------|------|---------------------------|
| Required Texts    |      | Yes                       |
| Recommended Texts |      | No                        |
| Websites          |      |                           |

Grading Scheme  
مخطط الدرجات

| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| Success Group<br>(50 - 100) | A - Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                             | C - Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                             | E - Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 - 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

| Module Information<br>معلومات المادة الدراسية |                                 |                              |                                                                                                                                                                                                                                                                                   |                                 |       |
|-----------------------------------------------|---------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------|
| Module Title                                  | Architectural Design V          |                              | Module Delivery                                                                                                                                                                                                                                                                   |                                 |       |
| Module Type                                   | Core                            |                              | <div><input checked="" type="checkbox"/> Theory<br/>Lecture</div> <div><input checked="" type="checkbox"/> Lab</div> <div><input checked="" type="checkbox"/> Tutorial</div> <div><input checked="" type="checkbox"/> Practical</div> <div><input type="checkbox"/> Seminar</div> |                                 |       |
| Module Code                                   | Arch3511                        |                              |                                                                                                                                                                                                                                                                                   |                                 |       |
| ECTS Credits                                  | 12                              |                              |                                                                                                                                                                                                                                                                                   |                                 |       |
| SWL (hr/sem)                                  | 300                             |                              |                                                                                                                                                                                                                                                                                   |                                 |       |
| Module Level                                  |                                 | UGxIII                       | Semester of Delivery                                                                                                                                                                                                                                                              |                                 | 5     |
| Administering Department                      |                                 | Type Dept. Code              | College                                                                                                                                                                                                                                                                           | Type College Code               |       |
| Module Leader                                 | Dr. Ali Aumran Lattif Al-Thahab |                              | e-mail                                                                                                                                                                                                                                                                            | Eng.ali.aumran@uobabylon.org.iq |       |
| Module Leader’s Acad. Title                   |                                 | Assistant ProfessorProfessor | Module Leader’s Qualification                                                                                                                                                                                                                                                     |                                 | Ph.D. |
| Module Tutor                                  | Name (if available)             |                              | e-mail                                                                                                                                                                                                                                                                            | E-mail                          |       |
| Peer Reviewer Name                            |                                 | Name                         | e-mail                                                                                                                                                                                                                                                                            | E-mail                          |       |
| Scientific Committee Approval Date            |                                 | 01/06/2023                   | Version Number                                                                                                                                                                                                                                                                    |                                 | 1.0   |

| Relation with other Modules<br>العلاقة مع المواد الدراسية الأخرى |      |          |  |
|------------------------------------------------------------------|------|----------|--|
| Prerequisite module                                              | None | Semester |  |
| Co-requisites module                                             | None | Semester |  |

| Module Aims, Learning Outcomes and Indicative Contents<br>أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                                                                               | The third academic year is considered the final stage of the information base in the field of architectural design, where the student gets acquainted with complex and multi-functional projects for their various exploitation and service spaces. Structural decisions and implementation technology are at the forefront of the design proposal, through choices for projects with requirements for short and medium-term construction seas that can be implemented through reinforced concrete structures or iron structures through which the student will be introduced to the most important construction details that must be known in this field and with practical support so that work is done on a project The first semester within the SFB system and an application for the design project in the first semester with Building Installation (III) for the second semester and throughout the |

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                           | academic year.                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية | The subject is the most important in the architecture department of all universities. Preparing the student to enter the labor market after graduation and take responsibility for designing and implementing construction projects are the main goals of this subject.                                                                                                                                                                   |
| Indicative Contents<br>المحتويات الإرشادية                | <ol style="list-style-type: none"> <li>1. Developing student's creativity and strength their design abilities through a group of exercises. 20hr</li> <li>2. Delivering design concepts based on principles that deal with human needs. 30hr</li> <li>3. Different assignments to elevate student awareness of the specific design problem. 40hr</li> <li>4. Stages of projects: fulfill submission requirements. 30hr</li> </ol> (120hr) |

| Learning and Teaching Strategies<br>استراتيجيات التعلم والتعليم |                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategies                                                      | <p>The main strategy of architectural design at this stage is based on;</p> <ul style="list-style-type: none"> <li>• Student participation in the design studio through pre-design studies</li> <li>• Multi-function design projects</li> <li>• Design project depending on Team work.</li> </ul> |

| Student Workload (SWL)<br>الحمل الدراسي للطلاب                          |     |                                                                    |    |
|-------------------------------------------------------------------------|-----|--------------------------------------------------------------------|----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطلاب خلال الفصل       | 180 | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطلاب أسبوعيا       | 12 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطلاب خلال الفصل | 120 | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطلاب أسبوعيا | 8  |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطلاب خلال الفصل              | 300 |                                                                    |    |

| Module Evaluation<br>تقييم المادة الدراسية |                 |             |                 |            |                           |
|--------------------------------------------|-----------------|-------------|-----------------|------------|---------------------------|
| As                                         |                 | Time/Number | Weight (Marks)  | Week Due   | Relevant Learning Outcome |
| Formative assessment                       | Quizzes         |             |                 |            | LO #1, 2, 10 and 11       |
|                                            | Assignments     | 15          | 10% (20)        | 2, 12      | LO # 3, 4, 6 and 7        |
|                                            | Projects / Lab. | 11          | 10% (20)        | Continuous |                           |
|                                            | Report          |             |                 | 13         | LO # 5, 8 and 10          |
| Summative assessment                       | Midterm Exam    | 10          | 10% (10)        | 7          | LO # 1-7                  |
|                                            | Final Exam      |             |                 | 16         | All                       |
| Total assessment                           |                 |             | 100% (50 Marks) |            |                           |

| Delivery Plan (Weekly Syllabus)<br>المنهاج الأسبوعي النظري |                  |
|------------------------------------------------------------|------------------|
| Week                                                       | Material Covered |

| Delivery Plan (Weekly Lab. Syllabus)<br>المنهاج الأسبوعي للمختبر / الكورس الأول |                                                               |
|---------------------------------------------------------------------------------|---------------------------------------------------------------|
| Week                                                                            | Material Covered                                              |
| Week 1-4                                                                        | Summer training reports discussion - Rapid project submission |
| Week 5-15                                                                       | Multi story Functional project continues to the course end.   |

| Delivery Plan (Weekly Lab. Syllabus)<br>المنهاج الأسبوعي للمختبر / الكورس الثاني |  |
|----------------------------------------------------------------------------------|--|
|----------------------------------------------------------------------------------|--|

| Week      | Material Covered                                        |
|-----------|---------------------------------------------------------|
| Week 5-15 | Multi story Functional project works to the course end. |

| Learning and Teaching Resources<br>مصادر التعلم والتدريس |      |                           |
|----------------------------------------------------------|------|---------------------------|
|                                                          | Text | Available in the Library? |
| Required Texts                                           |      | Yes                       |
| Recommended Texts                                        |      | No                        |
| Websites                                                 |      |                           |

| Grading Scheme<br>مخطط الدرجات |                  |                     |           |                                       |
|--------------------------------|------------------|---------------------|-----------|---------------------------------------|
| Group                          | Grade            | التقدير             | Marks (%) | Definition                            |
| Success Group<br>(50 - 100)    | A - Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                                | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                                | C - Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                                | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                                | E - Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 - 49)         | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                                | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |
|                                |                  |                     |           |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

| Module Information<br>معلومات المادة الدراسية |                               |                 |                                                                                                                                                                                                                 |                                       |       |
|-----------------------------------------------|-------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------|
| Module Title                                  | Building Construction VI      |                 | Module Delivery                                                                                                                                                                                                 |                                       |       |
| Module Type                                   | Core                          |                 | <input checked="" type="checkbox"/> Theory<br>Lecture<br><input checked="" type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial<br><input type="checkbox"/> Practical<br><input type="checkbox"/> Seminar |                                       |       |
| Module Code                                   | Arch3512                      |                 |                                                                                                                                                                                                                 |                                       |       |
| ECTS Credits                                  | 4                             |                 |                                                                                                                                                                                                                 |                                       |       |
| SWL (hr/sem)                                  | 100                           |                 |                                                                                                                                                                                                                 |                                       |       |
| Module Level                                  |                               | UGx11 1         | Semester of Delivery                                                                                                                                                                                            |                                       | 5     |
| Administering Department                      |                               | Type Dept. Code | College                                                                                                                                                                                                         | Type College Code                     |       |
| Module Leader                                 | Prof. Dr. Mohammed Salah Nasr |                 | e-mail                                                                                                                                                                                                          | eng511.mohammed.nasr@uobabylon.edu.iq |       |
| Module Leader's Acad. Title                   |                               | Professor       | Module Leader's Qualification                                                                                                                                                                                   |                                       | Ph.D. |
| Module Tutor                                  | Name (if available)           |                 | e-mail                                                                                                                                                                                                          | E-mail                                |       |
| Peer Reviewer Name                            |                               | Name            | e-mail                                                                                                                                                                                                          | E-mail                                |       |
| Scientific Committee Approval Date            |                               | 01/06/2026      | Version Number                                                                                                                                                                                                  |                                       | 2.0   |

| Relation with other Modules<br>العلاقة مع المواد الدراسية الأخرى |      |          |  |
|------------------------------------------------------------------|------|----------|--|
| Prerequisite module                                              | None | Semester |  |
| Co-requisites module                                             | None | Semester |  |

### Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                      | <ul style="list-style-type: none"> <li>- Introducing the importance of the structural system of a building and its close relationship with the design process, as the selection of an appropriate structural system for each building directly interacts with its function and final external form.</li> <li>- Addressing the importance of architectural details and the role they play in building design and in the execution process, in order to ensure construction accuracy, as well as enhancing the designer's ability to clearly express the main architectural features of the building.</li> <li>- Introducing the types of drawings produced by the architect, such as design drawings, working drawings, shop drawings, and as-built drawings, and the requirements of each type to ensure they serve their intended purpose.</li> </ul> <p>Teaching students how to produce and organize detailed working drawings in general, how to present them properly, with emphasis on multi-storey structural buildings made of reinforced concrete, and structures incorporating steel beams.</p> |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية | <p>General introduction<br/>Construction methods – types of structures<br/>Building nature and structural elements<br/>Concrete: components and manufacturing<br/>Reinforced concrete<br/>Structural behavior of building elements<br/>Types of applied stresses<br/>Load transfer systems<br/>Exam<br/>Building services (heating and cooling)<br/>Steel: components and manufacturing<br/>Types of steel structures<br/>Steel structure cladding<br/>Internal partitions and types of floors<br/>Steel staircases</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Indicative Contents<br>المحتويات الإرشادية                | <p>architectural creative thinking by developing his architectural information (20hrs(</p> <p>developing his drawing capabilities (10hrs(</p> <p>building his architectural memory by viewing architectural products with pictures and videos. ( 10hrs(</p> <p>Learn how to show by professional hand drawing and in different styles, watercolors, acrylic markers, etc (10hrs (</p> <p>Performing all that is required of drawing class assignments from drawing projects in all their stages and showing them at a high professional level through manual drawing) (30hrs</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

### Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

|            |                                                                                                                                                                                                                                                                                                                                  |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategies | <p>Knowledge and understanding</p> <p>a- Knowledge and understanding</p> <p>To learn how to design the required system</p> <p>To learn how to describe the structural system</p> <p>To learn what are the international standards and measurements regarding the installation material</p> <p>To learn how to draw a diagram</p> |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Student Workload (SWL)

الحمل الدراسي للطلاب

|                                                                   |    |                                                               |     |
|-------------------------------------------------------------------|----|---------------------------------------------------------------|-----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطلاب خلال الفصل | 93 | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطلاب أسبوعياً | 6.2 |
| Unstructured SWL (h/sem)                                          | 57 | Unstructured SWL (h/w)                                        | 3.8 |

|                                                            |     |                                          |  |
|------------------------------------------------------------|-----|------------------------------------------|--|
| الحمل الدراسي غير المنتظم للطالب خلال الفصل                |     | الحمل الدراسي غير المنتظم للطالب أسبوعيا |  |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطالب خلال الفصل | 150 |                                          |  |

Module Evaluation  
تقييم المادة الدراسية

| As                   |                 | Time/Number | Weight (Marks)   | Week Due   | Relevant Learning Outcome |
|----------------------|-----------------|-------------|------------------|------------|---------------------------|
| Formative assessment | Quizzes         | 1           | 10% (5)          | 5, 10      | LO #1, 2, 10 and 11       |
|                      | Assignments     | 2           | 10% (5)          | 2, 12      | LO # 3, 4, 6 and 7        |
|                      | Projects / Lab. | 1           | 10% (10)         | Continuous |                           |
|                      | Report          | 1           | 10% (10)         | 13         | LO # 5, 8 and 10          |
| Summative assessment | Midterm Exam    | 2 hr        | 10% (20)         | 7          | LO # 1-7                  |
|                      | Final Exam      | 2hr         | 50% (50)         | 16         | All                       |
| Total assessment     |                 |             | 100% (100 Marks) |            |                           |

Delivery Plan (Weekly Syllabus)  
المنهاج الاسبوعي النظري

| Week | Material Covered |
|------|------------------|
|------|------------------|

Delivery Plan (Weekly Lab. Syllabus)  
المنهاج الاسبوعي للمختبر

| Week    | Material Covered                                                                                                                                                                                              |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Week 1  | Stairs and Ramps Types of stairs, especially reinforced concrete stairs, site casting and precast, different construction methods for construction and their construction behavior. Upgrades Ramps for people |
| Week 2  | Building Services Services HVAC heating and cooling services, systems and supplies inside the building                                                                                                        |
| Week 3  | Electrical services, lighting, establishments, and getting acquainted with some of the symbols used in health services plans                                                                                  |
| Week 4  | Communication services and special services                                                                                                                                                                   |
| Week 5  | Steel Structures / Iron Material Extraction, Components, Types, Characteristics and Disadvantages                                                                                                             |
| Week 6  | Types of basic structural structures of steel and its basic structural sections                                                                                                                               |
| Week 7  | Methods of linking elements and basic sections of steel structures, and methods of connecting basic sections with each other.                                                                                 |
| Week 8  | Methods of strengthening steel structures against lateral and horizontal forces ( Bracing                                                                                                                     |
| Week 9  | Methods of externally wrapping steel structures for ceilings and walls, methods of attaching and isolating them environmentally, thermally and acoustically, with details of openings.                        |
| Week 10 | Interior cutting, types of floors, intermediate floors, structures and finishing materials                                                                                                                    |
| Week 11 | Steel stairs, types and methods of their construction, concrete and their details                                                                                                                             |
| Week 12 | Structural structures composed of steel and concrete and their details                                                                                                                                        |
| Week 13 | S F B/CI system and circulating tables                                                                                                                                                                        |
| Week 14 | Applying the S F B / C I system to the plans and types of plans that this system deals with                                                                                                                   |

Learning and Teaching Resources  
مصادر التعلم والتدريس

|                   | Text                                                                                                                                                                                                                                                                                                                         | Available in the Library? |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Required Texts    |                                                                                                                                                                                                                                                                                                                              | Yes                       |
| Recommended Texts | <ul style="list-style-type: none"> <li>Building Construction (Anis Jawad)</li> <li>Building Construction and Building Technology (Dr. Mohammed Abdullah)</li> <li>Building Construction (Zuhair Sako and Artin Livon)</li> <li>Prescribed textbooks (curriculum, if available)</li> <li>Main references (sources)</li> </ul> | No                        |

|                                |                  |                     |           |                                       |
|--------------------------------|------------------|---------------------|-----------|---------------------------------------|
| Websites                       |                  |                     |           |                                       |
| Grading Scheme<br>مخطط الدرجات |                  |                     |           |                                       |
| Group                          | Grade            | التقدير             | Marks (%) | Definition                            |
| Success Group<br>(50 - 100)    | A - Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                                | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                                | C - Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                                | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                                | E - Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 – 49)         | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                                | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |
|                                |                  |                     |           |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

| Module Information<br>معلومات المادة الدراسية |                             |                 |                                                                                                                                                                                        |                                              |       |
|-----------------------------------------------|-----------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-------|
| Module Title                                  | History of Architecture III |                 | Module Delivery                                                                                                                                                                        |                                              |       |
| Module Type                                   | S                           |                 | <input checked="" type="checkbox"/> Theory<br>Lecture<br>Lab<br><input type="checkbox"/> Tutorial<br><input type="checkbox"/> Practical<br><input checked="" type="checkbox"/> Seminar |                                              |       |
| Module Code                                   | Arch3514                    |                 |                                                                                                                                                                                        |                                              |       |
| ECTS Credits                                  | 4                           |                 |                                                                                                                                                                                        |                                              |       |
| SWL (hr/sem)                                  | 100                         |                 |                                                                                                                                                                                        |                                              |       |
| Module Level                                  |                             | UGIII           | Semester of Delivery                                                                                                                                                                   |                                              | 6     |
| Administering Department                      |                             | Type Dept. Code | College                                                                                                                                                                                | Type College Code                            |       |
| Module Leader                                 | Name: Hussam Jabbar         |                 | e-mail                                                                                                                                                                                 | E-mail<br>Eng.hussam.jabbar@uobabylon.end.iq |       |
| Module Leader's Acad. Title                   |                             | Professor       | Module Leader's Qualification                                                                                                                                                          |                                              | Ph.D. |
| Module Tutor                                  | Name (if available)         |                 | e-mail                                                                                                                                                                                 | E-mail<br>Eng.hussam.jabbar@uobabylon.end.iq |       |
| Peer Reviewer Name                            |                             | Name            | e-mail                                                                                                                                                                                 | E-mail<br>Eng.hussam.jabbar@uobabylon.end.iq |       |
| Scientific Committee Approval Date            |                             | 01/06/2023      | Version Number                                                                                                                                                                         |                                              | 1.0   |

|                                                                                |      |  |          |
|--------------------------------------------------------------------------------|------|--|----------|
| <b>Relation with other Modules</b><br><b>العلاقة مع المواد الدراسية الأخرى</b> |      |  |          |
| Prerequisite module                                                            | None |  | Semester |
| Co-requisites module                                                           | None |  | Semester |

|                                                                                                                                  |                                                                                                                                                                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Module Aims, Learning Outcomes and Indicative Contents</b><br><b>أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية</b> |                                                                                                                                                                                                                                                                                             |
| Module Aims<br>أهداف المادة الدراسية                                                                                             | The vocabulary of the history of architecture is reviewed based on the method (comparative analysis) and the distinction between the different architectural styles throughout history and on the basis of: geographical location, historical values, climatic and geological descriptions, |

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                           | construction methods used, specifications of ceilings and foundations, while addressing the history of art through its various eras, such as decorations, plastic art, ornaments and others. Other arts, with an emphasis on the origins of urban gatherings of different civilizations. The history course for the third academic year covers the following architectural styles: Greek, Roman, Advanced, Byzantine, Romanesque, Gothic and Renaissance architecture. |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية | 1- Acquaint the student with art and architecture<br>2- To familiarize the student with the capabilities of scientific criticism<br>3- Know the basics of architectural design<br>4- Identify the elements of architectural design<br>5- Learn the principles of architectural design                                                                                                                                                                                  |
| Indicative Contents<br>المحتويات الإرشادية                | Developing the capabilities of the student's artistic (5hrs)<br>architectural creative thinking by developing his architectural information (9hrs)<br>developing his drawing capabilities (6hrs)<br>building his architectural memory by viewing architectural products with pictures and videos. (7hrs)<br>The student's memory is also developed by feeding it with the biographies of international architects and architecture masters (10hrs)                     |

#### Learning and Teaching Strategies

##### استراتيجيات التعلم والتعليم

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategies | The strategies of the curriculum are divided into first: distant goals such as building a generation of architects capable of innovation that has high architectural taste and intermediate goals through building contemporary architectural thought that is able to combine contemporary, preservation and close goals through developing the student's architectural talents and providing them with intellectual and technical tools. |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### Student Workload (SWL)

##### الحمل الدراسي للطالب

|                                                                         |     |                                                                     |     |
|-------------------------------------------------------------------------|-----|---------------------------------------------------------------------|-----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطالب خلال الفصل       | 63  | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطالب أسبوعياً       | 4.2 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطالب خلال الفصل | 37  | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطالب أسبوعياً | 2.4 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطالب خلال الفصل              | 100 |                                                                     |     |

#### Module Evaluation

##### تقييم المادة الدراسية

| As                   | Time/Number     | Weight (Marks)   | Week Due | Relevant Learning Outcome |
|----------------------|-----------------|------------------|----------|---------------------------|
| Formative assessment | Quizzes         | 1                | 10% (10) | 5, 10                     |
|                      | Assignments     |                  |          | LO #1, 2, 10 and 11       |
|                      | Projects / Lab. |                  |          |                           |
|                      | Report          | 1                | 10% (10) | 8                         |
| Summative assessment | Midterm Exam    | 2 hr             | 30% (30) | 13                        |
|                      | Final Exam      | 3hr              | 50% (50) | 15                        |
| Total assessment     |                 | 100% (100 Marks) |          |                           |

#### Module Evaluation

##### تقييم المادة الدراسية

| As                   | Time/Number     | Weight (Marks) | Week Due | Relevant Learning Outcome |
|----------------------|-----------------|----------------|----------|---------------------------|
| Formative assessment | Quizzes         | 1              | 10% (10) | 5, 10                     |
|                      | Assignments     |                |          | LO #1, 2, 10 and 11       |
|                      | Projects / Lab. |                |          |                           |
|                      | Report          | 1              | 10% (10) | 8                         |

|                      |              |      |                  |    |          |
|----------------------|--------------|------|------------------|----|----------|
| Summative assessment | Midterm Exam | 2 hr | 30% (30)         | 13 | LO # 1-7 |
|                      | Final Exam   | 3hr  | 50% (50)         | 15 | All      |
| Total assessment     |              |      | 100% (100 Marks) |    |          |

Delivery Plan (Weekly Syllabus)  
المنهاج الاسبوعي النظري

|         |                                                                                                                                                                         |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Week    | Material Covered<br>The first part of the curriculum takes two hours per week during the first semester                                                                 |
| Week 1  | Greek architecture, evolution and development                                                                                                                           |
| Week 2  | Greek architecture the most important urban structures and construction methods                                                                                         |
| Week 3  | Greek architecture, hypodamic urban planning                                                                                                                            |
| Week 4  | Greek architecture The architectural theories created by the Greeks (the golden ratio, optical deception) and the model                                                 |
| Week 5  | Roman architecture distinctive architectural features and distinguish them from Greek architecture                                                                      |
| Week 6  | Roman architecture Roman domes and how to create them                                                                                                                   |
| Week 7  | Roman architecture Characteristic examples of Roman architecture                                                                                                        |
| Week 8  | The exam                                                                                                                                                                |
| Week 9  | Advanced Christian architecture Experiments and attempts to transform existing Roman buildings into churches in which Christian rites were practiced                    |
| Week 10 | Advanced Christian architecture Building the Roman basilica and transforming it into a church                                                                           |
| Week 11 | Byzantine architecture taking the Grecian cross as a model for the Byzantine church                                                                                     |
| Week 12 | Byzantine architecture: the construction of domes on the cross arms of the cross and the use of mosaics, and this gave the Byzantine architecture its distinctive style |
| Week 13 | Romanesque architecture The use of semicircular arches and massive buttresses was one of the features of this architecture                                              |
| Week 14 | Romanesque architecture Building religious complexes (cathedrals, monasteries, and schools for monks and nuns                                                           |
|         | Material Covered<br>The Second part of the curriculum takes two hours per week during the first semester                                                                |
| Week 1  | Gothic architecture: Evolution and development                                                                                                                          |
| Week 2  | Gothic architecture Latin cross and church form                                                                                                                         |
| Week 3  | Gothic architecture integrates the meaning of the church with content and content                                                                                       |
| Week 4  | Gothic architecture, the problem of lack of lighting in the chapel                                                                                                      |
| Week 5  | Gothic architecture finding solutions resulting from the use of plane arches in the façades and quadruple and hexagonal arches in the chapel                            |
| Week 6  | Gothic architecture is distinguished examples of French and English churches                                                                                            |
| Week 7  | Exam                                                                                                                                                                    |
| Week 8  | Renaissance architecture Reasons for the emergence of the Renaissance architectural style                                                                               |
| Week 9  | Renaissance architecture Florence Cathedral and Prolonsky architecture                                                                                                  |
| Week 10 | Renaissance architecture spread the style in Rome and then Venice and its spread to Europe                                                                              |
| Week 11 | Renaissance architecture, Palladio's writings, and their impact on the New World                                                                                        |
| Week 12 | Renaissance architecture The emergence of public buildings and axial planning                                                                                           |
| Week 13 | Renaissance architecture Examples of Renaissance buildings and famous architects                                                                                        |
| Week 14 | Renaissance architecture, the decline and decline of style, and the emergence of the Baroque and Rococo movements later                                                 |

Delivery Plan (Weekly Lab. Syllabus)  
المنهاج الاسبوعي للمختبر

|      |                  |
|------|------------------|
| Week | Material Covered |
|------|------------------|

Learning and Teaching Resources  
مصادر التعلم والتدريس

|                |      |                           |
|----------------|------|---------------------------|
|                | Text | Available in the Library? |
| Required Texts |      | Yes                       |

|                   |  |    |
|-------------------|--|----|
| Recommended Texts |  | No |
| Websites          |  |    |

| Grading Scheme<br>مخطط الدرجات                                                                                                                                                                                                                                                                                                                                                |                  |                     |           |                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------|-----------|---------------------------------------|
| Group                                                                                                                                                                                                                                                                                                                                                                         | Grade            | التقدير             | Marks (%) | Definition                            |
| Success Group<br>(50 - 100)                                                                                                                                                                                                                                                                                                                                                   | A - Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                                                                                                                                                                                                                                                                                                                                                                               | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                                                                                                                                                                                                                                                                                                                                                                               | C - Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                                                                                                                                                                                                                                                                                                                                                                               | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                                                                                                                                                                                                                                                                                                                                                                               | E - Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 - 49)                                                                                                                                                                                                                                                                                                                                                        | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                                                                                                                                                                                                                                                                                                                                                                               | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |
| Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above. |                  |                     |           |                                       |

| Module Information<br>معلومات المادة الدراسية |                                     |                 |                                                                                                                                                                                                                                                     |                                                                                                                |                      |
|-----------------------------------------------|-------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------|
| Module Title                                  | Principles of planning              |                 | Module Delivery                                                                                                                                                                                                                                     |                                                                                                                |                      |
| Module Type                                   | S                                   |                 | <input checked="" type="checkbox"/> Theory<br><input type="checkbox"/> Lecture<br><input type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial<br><input checked="" type="checkbox"/> Practical<br><input checked="" type="checkbox"/> Seminar |                                                                                                                |                      |
| Module Code                                   | Arch3515                            |                 |                                                                                                                                                                                                                                                     |                                                                                                                |                      |
| ECTS Credits                                  | 4                                   |                 |                                                                                                                                                                                                                                                     |                                                                                                                |                      |
| SWL (hr/sem)                                  | 100                                 |                 |                                                                                                                                                                                                                                                     |                                                                                                                |                      |
| Module Level                                  |                                     | UG III          |                                                                                                                                                                                                                                                     |                                                                                                                | Semester of Delivery |
| Administering Department                      |                                     | Type Dept. Code | College                                                                                                                                                                                                                                             | Type College Code                                                                                              |                      |
| Module Leader                                 | Assist. Lect. Baydaa Abd Al-Hussein |                 | e-mail                                                                                                                                                                                                                                              | E-mail<br><a href="mailto:eng226.badia.alhussien@uobabylon.edu.iq">eng226.badia.alhussien@uobabylon.edu.iq</a> |                      |
| Module Leader's Acad. Title                   |                                     | Professor       | Module Leader's Qualification                                                                                                                                                                                                                       |                                                                                                                | Ph.D.                |
| Module Tutor                                  | Name (if available)                 |                 | e-mail                                                                                                                                                                                                                                              | E-mail                                                                                                         |                      |
| Peer Reviewer Name                            |                                     | Name            | e-mail                                                                                                                                                                                                                                              | E-mail                                                                                                         |                      |
| Scientific Committee Approval Date            |                                     | 01/06/2023      | Version Number                                                                                                                                                                                                                                      | 1.0                                                                                                            |                      |

| Relation with other Modules<br>العلاقة مع المواد الدراسية الأخرى |      |          |  |
|------------------------------------------------------------------|------|----------|--|
| Prerequisite module                                              | None | Semester |  |
| Co-requisites module                                             | None | Semester |  |

| Module Aims, Learning Outcomes and Indicative Contents<br>أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية |                                                                                                                                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                                                                               | This module introduces students to the fundamental principles of urban planning, urban development, and city design. It explores the evolution of cities, land-use planning, population forecasting, transportation planning, urban aesthetics, and urban renewal |

|                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                         | strategies. The course aims to develop students' understanding of how cities function and how planning can improve urban environments and quality of life.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Module Learning Outcomes</b><br><b>مخرجات التعلم للمادة الدراسية</b> | <p>Upon successful completion of this module, students will be able to:</p> <ol style="list-style-type: none"> <li>1. Explain the basic concepts, principles, and objectives of urban planning.</li> <li>2. Analyze the historical development and urban form of cities.</li> <li>3. Assess contemporary urban challenges and propose planning responses.</li> <li>4. Apply population forecasting and service-planning methods.</li> <li>5. Identify different land-use categories and evaluate their distribution.</li> <li>6. Interpret major theories of land-use distribution and urban growth.</li> <li>7. Understand the role of master plans, transportation networks, and urban design in city development.</li> <li>8. Evaluate urban landscapes, public spaces, and streetscape elements.</li> <li>9. Discuss urban renewal strategies and the application of information technology in urban planning.</li> </ol> |
| <b>Indicative Contents</b><br><b>المحتويات الإرشادية</b>                | <input type="checkbox"/> Introduction to urban planning concepts and principles.<br><input type="checkbox"/> Evolution of urban form and city development.<br><input type="checkbox"/> Contemporary urban issues and challenges.<br><input type="checkbox"/> Population studies and urban growth forecasting.<br><input type="checkbox"/> Land-use planning and per capita standards.<br><input type="checkbox"/> Theories of land-use distribution and urban structure.                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

| <b>Learning and Teaching Strategies</b><br><b>استراتيجيات التعلم والتعليم</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Strategies</b>                                                             | <p>The objectives of the second course aims to develop the students' concepts about the sustainable city developments as well as aesthetic and beauty concepts, shape the urban scape of the city in all its components. Also, to identify the current impacts of the information and communication revolution on the city and the expected urban changes as a result of information technology, the concepts of urban renewal , privacy in planning and architecture, with a brief overview of the laws of construction, reconstruction and planning.</p> |

| <b>Student Workload (SWL)</b><br><b>الحمل الدراسي للطالب</b>                          |    |                                                                                  |     |
|---------------------------------------------------------------------------------------|----|----------------------------------------------------------------------------------|-----|
| <b>Structured SWL (h/sem)</b><br><b>الحمل الدراسي المنتظم للطالب خلال الفصل</b>       | 33 | <b>Structured SWL (h/w)</b><br><b>الحمل الدراسي المنتظم للطالب أسبوعيا</b>       | 2.5 |
| <b>Unstructured SWL (h/sem)</b><br><b>الحمل الدراسي غير المنتظم للطالب خلال الفصل</b> | 17 | <b>Unstructured SWL (h/w)</b><br><b>الحمل الدراسي غير المنتظم للطالب أسبوعيا</b> | 1.4 |
| <b>Total SWL (h/sem)</b><br><b>الحمل الدراسي الكلي للطالب خلال الفصل</b>              | 50 |                                                                                  |     |

| <b>Module Evaluation</b><br><b>تقييم المادة الدراسية</b> |                 |             |                  |          |                           |
|----------------------------------------------------------|-----------------|-------------|------------------|----------|---------------------------|
| As                                                       |                 | Time/Number | Weight (Marks)   | Week Due | Relevant Learning Outcome |
| Formative assessment                                     | Quizzes         | .5          | 10% (10)         | 5, 10    | LO #1, 2, 10 and 11       |
|                                                          | Assignments     |             |                  |          |                           |
|                                                          | Projects / Lab. |             |                  |          |                           |
|                                                          | Report          | 1           | 10% (10)         | 13       | LO # 5, 8 and 10          |
| Summative assessment                                     | Midterm Exam    | 2 hr        | 30% (30)         | 7        | LO # 1-7                  |
|                                                          | Final Exam      | 2hr         | 50% (50)         | 16       | All                       |
| Total assessment                                         |                 |             | 100% (100 Marks) |          |                           |

| <b>Delivery Plan (Weekly Syllabus)</b><br><b>المنهاج الاسبوعي النظري</b> |                  |
|--------------------------------------------------------------------------|------------------|
| Week                                                                     | Material Covered |

|         |                                                                                                                                                                                                                                                                                                                                                                      |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Week 1  | Sustainable development and urban planning, Sustainable city strategies, Sustainable urban projects . Green belts and the green formation of cities, Analysis of sustainable planning approaches .                                                                                                                                                                   |
| Week 2  | Beauty, Beauty concept, Aesthetics, Beauty and ugliness, Aesthetic need, Concept of aesthetic value, Sense and aesthetic sense, Perception of shapes .<br>The theory of Gestaltism and form , The evaluation activity, Judgment, Aesthetic preference, Aesthetic experience, Beauty assessment criteria, Aesthetic values of a traditional residential environment . |
| Week 3  | Formation of the urban landscape, Urban landscape, Elements of the urban landscape(Paths , Edges , Districts ,Nodes , Landmarks)<br>The urban spaces and their importance ,Public squares, piazzas(plazzas), and their forms, their types and relation with masses .                                                                                                 |
| Week 4  | Examination                                                                                                                                                                                                                                                                                                                                                          |
| Week 5  | Commercial streets and city centers, The style of dealing with them, Continuity, Homogeneity, Stability, Clarity, Significance and others.<br>Street furniture (street furnishing items), Surface finishes, Lighting and advertising ,Telephone cabins, Garbage bags, Plants.                                                                                        |
| Week 6  | The current impacts of the information and communication revolution on the city, The expected urban changes as a result of ICTs .<br>Urban development and modernization, Urban renewal policies (conservation, rehabilitation, redevelopment).                                                                                                                      |
| Week 7  | Privacy in architecture and planning and its importance in creating local identity and anti-globalization. Building, Construction and Planning Laws and their Impact on the Urban and spatial growth of Cities, Some Construction Controls FCOSR, FAR .                                                                                                              |
| Week 8  | Islamic building plans and Legislation in architecture and planning .<br>Discuss student research .<br>The contemporary city and its problems (population, urban, environmental, social, economic) .                                                                                                                                                                 |
| Week 9  | Planning definition, Structure of the planning process, Planning approaches, Planning reasons, Planning levels, Town Planning .                                                                                                                                                                                                                                      |
| Week 10 | The forms of Urbanized development in the world, France, England, Belgium, Italy, South America and Japan. The planning ideas presented previously by: Ebenezer Howard, Le Corbusier's, Soria Mata, Frank Lloyd Wright .                                                                                                                                             |
| Week 11 | Preparation of Master and sector plans for cities, Residential site planning (residential block, residential neighborhood, residential hay, residential sector , city, urban complex),Site requirements for residential uses .<br>Planning and design of roads .                                                                                                     |
| Week 12 | Population (population growth, number of households per household, economically active population, nature of social life, population pyramid) .                                                                                                                                                                                                                      |
| Week 13 | The land uses of the city, the correct methods of distribution, its proportion within the city, the complications of land uses in contemporary cities, the means used to control them .                                                                                                                                                                              |
| Week 14 | Theories of the distribution of land uses, Theory of Central Growth: Bergs, Theory of Sectors: Homer Hoyt, Theory of multiple nuclei: Harris and Ullman , Theory of Central place: Walter Christaller .                                                                                                                                                              |
| Week 15 | Examination .                                                                                                                                                                                                                                                                                                                                                        |

#### Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

| Week | Material Covered |
|------|------------------|
|------|------------------|

#### Learning and Teaching Resources

مصادر التعلم والتدريس

|                   | Text                                                                                                                                                                                                                                                                                                                                                       | Available in the Library? |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Required Texts    |                                                                                                                                                                                                                                                                                                                                                            | Yes                       |
| Recommended Texts | <ul style="list-style-type: none"> <li>- Hall, P. (2014). Urban and Regional Planning. Routledge.</li> <li>- Carmona, M., Tiesdell, S., Heath, T., Oc, T. (2010). Publ Places – Urban Spaces.</li> <li>- Friedmann, J. (2011). Planning in the Public Domain: From Knowledge to Action.</li> <li>- Lynch, K. (1984). Good City Form. MIT Press.</li> </ul> | No                        |

|          |  |  |
|----------|--|--|
|          |  |  |
| Websites |  |  |

| Grading Scheme<br>مخطط الدرجات |                  |                     |           |                                       |
|--------------------------------|------------------|---------------------|-----------|---------------------------------------|
| Group                          | Grade            | التقدير             | Marks (%) | Definition                            |
| Success Group<br>(50 - 100)    | A - Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                                | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                                | C - Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                                | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                                | E - Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 - 49)         | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                                | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |
|                                |                  |                     |           |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

### THIRD-YEAR\ SECOND -SEMESTER MODULE DESCRIPTION FORM

| Module Information<br>معلومات المادة الدراسية |                         |                          |                                                                                                                                                                                        |                                          |       |
|-----------------------------------------------|-------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-------|
| Module Title                                  | Methods of Conservation |                          | Module Delivery                                                                                                                                                                        |                                          |       |
| Module Type                                   | S                       |                          | <input checked="" type="checkbox"/> Theory<br>Lecture<br>Lab<br><input type="checkbox"/> Tutorial<br><input checked="" type="checkbox"/> Practical<br><input type="checkbox"/> Seminar |                                          |       |
| Module Code                                   | Arch3614                |                          |                                                                                                                                                                                        |                                          |       |
| ECTS Credits                                  | 4                       |                          |                                                                                                                                                                                        |                                          |       |
| SWL (hr/sem)                                  | 50                      |                          |                                                                                                                                                                                        |                                          |       |
| Module Level                                  |                         | UGx11 1                  | Semester of Delivery                                                                                                                                                                   |                                          | 6     |
| Administering Department                      |                         | Architectural Department | College                                                                                                                                                                                | College of Engineering                   |       |
| Module Leader                                 | Name :- Alaa .H. Ubaid  |                          | e-mail                                                                                                                                                                                 | E-mail eng.alaa.hadi@uobabylon.edu.iq    |       |
| Module Leader's Acad. Title                   |                         | Assist.Professor         | Module Leader's Qualification                                                                                                                                                          |                                          | Ms.c. |
| Module Tutor                                  | Name (if available)     |                          | e-mail                                                                                                                                                                                 | E-mail :- eng.alaa.hadi@uobabylon.edu.iq |       |
| Peer Reviewer Name                            |                         | Name                     | e-mail                                                                                                                                                                                 | E-mail                                   |       |
| Scientific Committee Approval Date            |                         | 01/06/2023               | Version Number                                                                                                                                                                         |                                          | 1.0   |

| Relation with other Modules<br>العلاقة مع المواد الدراسية الأخرى |      |          |  |
|------------------------------------------------------------------|------|----------|--|
| Prerequisite module                                              | None | Semester |  |
| Co-requisites module                                             | None | Semester |  |

| Module Aims, Learning Outcomes and Indicative Contents<br>أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية |
|--------------------------------------------------------------------------------------------------------------------|
|--------------------------------------------------------------------------------------------------------------------|

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                      | <p>Introducing the student to an important and vital topic, which is the topic of preserving the architectural heritage, which is a specialized scientific field concerned with matters of protection, prevention and rehabilitation of buildings and sites of distinguished historical and heritage value.</p> <p>The lesson deals with the basic principles and concepts of the subject, starting with the concept of heritage and cultural and architectural heritage and the objectives of protecting and preserving it, and the basic concepts of detecting, recording and documenting distinguished architectural heritage, and then choosing the appropriate treatment method, and methods for restoring, rehabilitating and reviving preserved buildings for contemporary uses with exposure to many applied examples. local, Arab and international</p> |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية | Graduated architects with knowledge of the method of preserving and rehabilitating historical buildings, as the process of preserving and rehabilitating is part of the process of planning, design and urban renewal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Indicative Contents<br>المحتويات الإرشادية                | 1- Supporting the educational process of conservation methods by using conservation examples and the method of preserving them in an applied manner by informing students about preservation methods such as using forms and field tours in traditional old areas and preparing reports collectively with weekly lectures using on-site and electronic projectors in Areport:- (25 hours)                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

| Learning and Teaching Strategies<br>استراتيجيات التعلم والتعليم |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategies                                                      | <ol style="list-style-type: none"> <li>1. Graduating highly qualified architects in the field of urban planning and design</li> <li>2. Building leadership qualities among its graduates by teaching them how to lead, problem-solving, teamwork, considerations of quality and professionalism in conservation work, and rehabilitation of heritage buildings.</li> <li>3. Instilling a spirit of imagination in graduates and a commitment to acquiring knowledge and serving the community.</li> <li>4. Contributing project ideas and conducting research for the benefit and development of the local community.</li> <li>5. Providing a good working environment for students and faculty members, with a focus on high academic, professional, practical and ethical standards so that they can set an example for society, especially while working on the maintenance and rehabilitation of heritage areas after graduation.</li> </ol> |

| Student Workload (SWL)<br>الحمل الدراسي للطالب                          |    |                                                                     |     |
|-------------------------------------------------------------------------|----|---------------------------------------------------------------------|-----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطالب خلال الفصل       | 33 | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطالب أسبوعياً       | 2.2 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطالب خلال الفصل | 17 | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطالب أسبوعياً | 1.2 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطالب خلال الفصل              | 50 |                                                                     |     |

| Module Evaluation<br>تقييم المادة الدراسية |                 |             |                |            |                           |
|--------------------------------------------|-----------------|-------------|----------------|------------|---------------------------|
| As                                         |                 | Time/Number | Weight (Marks) | Week Due   | Relevant Learning Outcome |
| Formative assessment                       | Quizzes         | .5          | 5% (10)        | 5, 10      | LO #1, 2, 10 and 11       |
|                                            | Assignments     | 2           | /              | 2, 12      | LO # 3, 4, 6 and 7        |
|                                            | Projects / Lab. | 1           | /              | Continuous |                           |
|                                            | Report          | 1           | 5% (10)        | 13         | LO # 5, 8 and 10          |
| Summative assessment                       | Midterm Exam    | 2 hr        | 30% (30)       | 7          | LO # 1-7                  |
|                                            | Final Exam      | 3hr         | 50% (50)       | 16         | All                       |

|                  |                  |  |  |
|------------------|------------------|--|--|
| Total assessment | 100% (100 Marks) |  |  |
|------------------|------------------|--|--|

Delivery Plan (Weekly Syllabus)  
المنهاج الأسبوعي النظري

| Week       | Material Covered                                                                                                                                                                                       |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Week 1     | Conservation of architectural heritage – basic definitions, conservation objectives, emergence and development of the concept                                                                          |
| Week 2     | Causes and sources of damage and loss in architectural and urban heritage                                                                                                                              |
| Week 3     | Dimensions of preserving architectural heritage: criteria for selecting buildings, efficiency of use and economic feasibility, social, planning, administrative, financial and legislative dimensions. |
| Week 4     | Preparatory steps for preservation work: inventory, documentation, registration, historical and physical studies                                                                                       |
| Week 5-6   | Treatments and behavioral standards: processing requirements, treatment selection, treatment levels, post-treatment protection                                                                         |
| Week 7     | Mid cores Exam                                                                                                                                                                                         |
| Week 8     | Rehabilitation and employment of historical buildings: rehabilitation criteria, contemporary job selection, criteria for evaluating efficiency of use                                                  |
| Week 9     | The role of rehabilitation in improving the urban environment - local and global examples                                                                                                              |
| Week 10    | The Arab Experience in Architectural Preservation: Its Applications and Problems                                                                                                                       |
| Week 11    | International experience in architectural preservation - a showcase of outstanding models                                                                                                              |
| Week 12    | The local experience in preservation: the history of the experience, the relevant authorities, the basic dimensions of the experience, the experiences of preserving the historical centers in Iraq    |
| Week 13    | Experiences of Preserving Historical Centers in Baghdad: The Experience of Al-Kadhimiya, Al-Rasheed Street                                                                                             |
| Week 14-15 | Preservation experiences of historical buildings in Baghdad                                                                                                                                            |

Delivery Plan (Weekly Lab. Syllabus)  
المنهاج الأسبوعي للمختبر

| Week | Material Covered |
|------|------------------|
|------|------------------|

Learning and Teaching Resources  
مصادر التعلم والتدريس

|                   | Text                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Available in the Library? |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Required Texts    | 1- مدونة جمال المدينة /مدونة بناء عراقية / وزارة الأعمار والأسكان –<br>وزارة التخطيط –الجهاز المركزي للتقييس والسيطرة النوعية<br>2- تاريخ فن العمارة العراقية في مختلف العصور – شريف يوسف<br>3- Agents acting on a building and its parts (based on ISO/DP 6241- 1982<br>4 – Classical styles in modern Architecture – Thomas L. Doremus<br>الموانئ والمؤتمرات الدولية المتعلقة بالحفاظ على التراث الثقافي<br>6- الأسلوب الأمثل للمحافظة على التراث المعماري في المدينة العراقية – د. حيدر عبد الرزاق كمونة - مركز التخطيط الحضري والأقليمي / جامعة بغداد<br>وغيرها....الخ | Yes                       |
| Recommended Texts | charts and text lec                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | No                        |
| Websites          | مواقع متعددة حسب الأمثلة المضمنة في المحاضرات numbers of Websites                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                           |

Grading Scheme  
مخطط الدرجات

| Group         | Grade         | التقدير | Marks (%) | Definition              |
|---------------|---------------|---------|-----------|-------------------------|
| Success Group | A - Excellent | امتياز  | 90 - 100  | Outstanding Performance |

|                        |                  |                     |         |                                       |
|------------------------|------------------|---------------------|---------|---------------------------------------|
| (50 - 100)             | B - Very Good    | جيد جدا             | 80 - 89 | Above average with some errors        |
|                        | C - Good         | جيد                 | 70 - 79 | Sound work with notable errors        |
|                        | D - Satisfactory | متوسط               | 60 - 69 | Fair but with major shortcomings      |
|                        | E - Sufficient   | مقبول               | 50 - 59 | Work meets minimum criteria           |
| Fail Group<br>(0 - 49) | FX – Fail        | راسب (قيد المعالجة) | (45-49) | More work required but credit awarded |
|                        | F – Fail         | راسب                | (0-44)  | Considerable amount of work required  |
|                        |                  |                     |         |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

| Module Information<br>معلومات المادة الدراسية |                         |                              |                               |                                                                                                                                                                                                                                       |       |
|-----------------------------------------------|-------------------------|------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Module Title                                  | Architectural Design VI |                              |                               | Module Delivery                                                                                                                                                                                                                       |       |
| Module Type                                   | Core                    |                              |                               | <input checked="" type="checkbox"/> Theory<br>Lecture<br><input checked="" type="checkbox"/> Lab<br><input checked="" type="checkbox"/> Tutorial<br><input checked="" type="checkbox"/> Practical<br><input type="checkbox"/> Seminar |       |
| Module Code                                   | Arch3611                |                              |                               |                                                                                                                                                                                                                                       |       |
| ECTS Credits                                  | 12                      |                              |                               |                                                                                                                                                                                                                                       |       |
| SWL (hr/sem)                                  | 300                     |                              |                               |                                                                                                                                                                                                                                       |       |
| Module Level                                  |                         | UGxIII                       | Semester of Delivery          |                                                                                                                                                                                                                                       | 6     |
| Administering Department                      |                         | Type Dept. Code              | College                       | Type College Code                                                                                                                                                                                                                     |       |
| Module Leader                                 |                         |                              | e-mail                        |                                                                                                                                                                                                                                       |       |
| Module Leader's Acad. Title                   |                         | Assistant ProfessorProfessor | Module Leader's Qualification |                                                                                                                                                                                                                                       | Ph.D. |
| Module Tutor                                  | Name (if available)     |                              | e-mail                        | E-mail                                                                                                                                                                                                                                |       |
| Peer Reviewer Name                            |                         | Name                         | e-mail                        | E-mail                                                                                                                                                                                                                                |       |
| Scientific Committee Approval Date            |                         | 01/06/2023                   | Version Number                | 1.0                                                                                                                                                                                                                                   |       |

| Relation with other Modules<br>العلاقة مع المواد الدراسية الأخرى |      |          |  |
|------------------------------------------------------------------|------|----------|--|
| Prerequisite module                                              | None | Semester |  |
| Co-requisites module                                             | None | Semester |  |

| Module Aims, Learning Outcomes and Indicative Contents<br>أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                                                                               | in the second semester, the student moves to a multi-story project, through which he learns the principles of design for functional requirements of a typical, recurring nature, such as educational, administrative, residential, and commercial buildings, and to see some construction details directed for this purpose, as well as the possibility of applying what the student learned in the subject of health services and air conditioning. Lighting services given to him in the first and second semester. The study includes a set of rapid tests to identify the student's ability to make the right design decisions within a short period of time. |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية                                                          | The subject is the most important in the architecture department of all universities. Preparing the student to enter the labor market after graduation and take responsibility for designing and implementing construction projects are the main goals of this subject.                                                                                                                                                                                                                                                                                                                                                                                           |
| Indicative Contents                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

|                                                                                |                                                             |             |                                                                    |                                  |                           |
|--------------------------------------------------------------------------------|-------------------------------------------------------------|-------------|--------------------------------------------------------------------|----------------------------------|---------------------------|
| المحتويات الإرشادية                                                            |                                                             |             |                                                                    |                                  |                           |
| Learning and Teaching Strategies<br>استراتيجيات التعلم والتعليم                |                                                             |             |                                                                    |                                  |                           |
| Strategies                                                                     |                                                             |             |                                                                    |                                  |                           |
| Student Workload (SWL)<br>الحمل الدراسي للطلاب                                 |                                                             |             |                                                                    |                                  |                           |
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطلاب خلال الفصل              |                                                             | 180         | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطلاب أسبوعيا       |                                  | 12                        |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطلاب خلال الفصل        |                                                             | 120         | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطلاب أسبوعيا |                                  | 8                         |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطلاب خلال الفصل                     |                                                             | 300         |                                                                    |                                  |                           |
| Module Evaluation<br>تقييم المادة الدراسية                                     |                                                             |             |                                                                    |                                  |                           |
| As                                                                             |                                                             | Time/Number | Weight (Marks)                                                     | Week Due                         | Relevant Learning Outcome |
| Formative assessment                                                           | Quizzes                                                     |             |                                                                    |                                  | LO #1, 2, 10 and 11       |
|                                                                                | Assignments                                                 | 15          | 10% (20)                                                           | 2, 12                            | LO # 3, 4, 6 and 7        |
|                                                                                | Projects / Lab.                                             | 11          | 10% (20)                                                           | Continuous                       |                           |
|                                                                                | Report                                                      |             |                                                                    | 13                               | LO # 5, 8 and 10          |
| Summative assessment                                                           | Midterm Exam                                                | 10          | 10% (10)                                                           | 7                                | LO # 1-7                  |
|                                                                                | Final Exam                                                  |             |                                                                    | 16                               | All                       |
| Total assessment                                                               |                                                             |             | 100% (50 Marks)                                                    |                                  |                           |
| Delivery Plan (Weekly Syllabus)<br>المنهاج الاسبوعي النظري                     |                                                             |             |                                                                    |                                  |                           |
| Week                                                                           | Material Covered                                            |             |                                                                    |                                  |                           |
| Week 1-15                                                                      | Multi story Functional project continues to the course end. |             |                                                                    |                                  |                           |
| Delivery Plan (Weekly Lab. Syllabus)<br>المنهاج الاسبوعي للمختبر/الكورس الثاني |                                                             |             |                                                                    |                                  |                           |
| Week                                                                           | Material Covered                                            |             |                                                                    |                                  |                           |
| Week 1-15                                                                      | Multi story Functional project works to the course end.     |             |                                                                    |                                  |                           |
| Learning and Teaching Resources<br>مصادر التعلم والتدريس                       |                                                             |             |                                                                    |                                  |                           |
|                                                                                | Text                                                        |             |                                                                    | Available in the Library?        |                           |
| Required Texts                                                                 |                                                             |             |                                                                    |                                  | Yes                       |
| Recommended Texts                                                              |                                                             |             |                                                                    |                                  | No                        |
| Websites                                                                       |                                                             |             |                                                                    |                                  |                           |
| Grading Scheme<br>مخطط الدرجات                                                 |                                                             |             |                                                                    |                                  |                           |
| Group                                                                          | Grade                                                       | التقدير     | Marks (%)                                                          | Definition                       |                           |
| Success Group<br>(50 - 100)                                                    | A - Excellent                                               | امتياز      | 90 - 100                                                           | Outstanding Performance          |                           |
|                                                                                | B - Very Good                                               | جيد جدا     | 80 - 89                                                            | Above average with some errors   |                           |
|                                                                                | C - Good                                                    | جيد         | 70 - 79                                                            | Sound work with notable errors   |                           |
|                                                                                | D - Satisfactory                                            | متوسط       | 60 - 69                                                            | Fair but with major shortcomings |                           |

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|                        |                |                     |         |                                       |
|------------------------|----------------|---------------------|---------|---------------------------------------|
|                        | E - Sufficient | مقبول               | 50 - 59 | Work meets minimum criteria           |
| Fail Group<br>(0 – 49) | FX – Fail      | راسب (قيد المعالجة) | (45-49) | More work required but credit awarded |
|                        | F – Fail       | راسب                | (0-44)  | Considerable amount of work required  |
|                        |                |                     |         |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

#### MODULE DESCRIPTION FORM

| Module Information<br>معلومات المادة الدراسية |                                                        |                               |                                                                                                                                                                                                                            |                                         |
|-----------------------------------------------|--------------------------------------------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| Module Title                                  | Building information Modeling (BIM)<br>In urban design |                               | Module Delivery                                                                                                                                                                                                            |                                         |
| Module Type                                   | Core                                                   |                               | <input checked="" type="checkbox"/> Theory<br>Lecture<br><input checked="" type="checkbox"/> Lab<br><input type="checkbox"/> Tutorial<br><input checked="" type="checkbox"/> Practical<br><input type="checkbox"/> Seminar |                                         |
| Module Code                                   | Arch3612                                               |                               |                                                                                                                                                                                                                            |                                         |
| ECTS Credits                                  | 6                                                      |                               |                                                                                                                                                                                                                            |                                         |
| SWL (hr/sem)                                  | 150                                                    |                               |                                                                                                                                                                                                                            |                                         |
| Module Level                                  | UGIV                                                   | Semester of Delivery          |                                                                                                                                                                                                                            | 6                                       |
| Administering Department                      | Type Dept. Code                                        | College                       | Type College Code                                                                                                                                                                                                          |                                         |
| Module Leader                                 | Assist.Lec Bashair Mahmood Shaker                      |                               | e-mail                                                                                                                                                                                                                     | eng306.bashair mahmood@uobabylon.edu.iq |
| Module Leader's Acad. Title                   | Lecturer Assistant                                     | Module Leader's Qualification |                                                                                                                                                                                                                            | M.S                                     |
| Module Tutor                                  | Assist.Lec Bashair Mahmood Shaker                      |                               | e-mail                                                                                                                                                                                                                     | eng306.bashair mahmood@uobabylon.edu.iq |
| Peer Reviewer Name                            | Name                                                   | e-mail                        | eng306.bashair mahmood@uobabylon.edu.iq                                                                                                                                                                                    |                                         |
| Scientific Committee Approval Date            | 01/06/2026                                             | Version Number                | 1.0                                                                                                                                                                                                                        |                                         |

#### Relation with other Modules

العلاقة مع المواد الدراسية الأخرى

|                      |                      |          |   |
|----------------------|----------------------|----------|---|
| Prerequisite module  | Architecture Design  | Semester | 6 |
| Co-requisites module | Architecture Graphic | Semester | 6 |

#### Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Aims<br>أهداف المادة الدراسية                      | Qualifying the engineers in BIM procedures & practices so that they can handle working fully on AR Revit models in compliance with international ISO standards, coordinate with different engineering systems within the project & get wider overview of BIM requirements for engineering projects.                                                                                                                                     |
| Module Learning Outcomes<br>مخرجات التعلم للمادة الدراسية | 1- Understanding the concept of BIM and its role in architectural projects<br>2- Distinguishing between traditional drawing and BIM<br>3- Creating a complete architectural model using Revit<br>4- Linking drawings (plans, sections, elevations, 3D)<br>5- Understanding coordination with other disciplines (structural, MEP)<br>Preparing a simple architectural project using the BIM methodology link with sustainable strategies |
| Indicative Contents<br>المحتويات الإرشادية                | The course provided students with a range of resources to help them complete exercises and projects efficiently, including:                                                                                                                                                                                                                                                                                                             |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>A Revit user guide: This includes a simplified explanation of the program interface and the basic modeling tools used in the course.</p> <p>Practical exercise sheets: These include clear steps for each exercise within the studio, specifying the requirements and expected outcomes.</p> <p>Sample models: These provide simple, illustrative examples of BIM projects to demonstrate the concept without direct copying.</p> <p>File organization guidelines: These teach students how to name elements, organize views, and use the Project Browser correctly.</p> <p>Assessment rubrics: These explain the assessment criteria from the beginning of the course to ensure fairness and transparency.</p> <p>Architectural and conceptual guidelines: <u>These emphasize that BIM is a tool to support architectural decision-making and not a replacement for design thinking.</u></p> |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Learning and Teaching Strategies

#### استراتيجيات التعلم والتعليم

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategies | <p>Learning by Doing: Students learn by implementing real-world models within Revit, learning through practice rather than solely through theoretical explanations.</p> <p>Problem-Based Learning: Students are presented with real-world design problems (adjusting thicknesses, changing levels, resolving element conflicts) and are required to solve them within a BIM environment.</p> <p>Gradual Cumulative Learning: Exercises are structured sequentially, with each exercise building upon the previous one, fostering a deep understanding of BIM as an integrated system.</p> <p>Collaborative Learning: Students are encouraged to share experiences in the studio and discuss design solutions, simulating a collaborative work environment in engineering offices.</p> <p>Critical Thinking-Based Learning: Students are required to analyze their design decisions and justify their choice of materials, thicknesses, and spatial solutions within the architectural model.</p> |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Student Workload (SWL)

#### الحمل الدراسي للطالب

|                                                                         |     |                                                                     |     |
|-------------------------------------------------------------------------|-----|---------------------------------------------------------------------|-----|
| Structured SWL (h/sem)<br>الحمل الدراسي المنتظم للطالب خلال الفصل       | 63  | Structured SWL (h/w)<br>الحمل الدراسي المنتظم للطالب أسبوعياً       | 4.2 |
| Unstructured SWL (h/sem)<br>الحمل الدراسي غير المنتظم للطالب خلال الفصل | 37  | Unstructured SWL (h/w)<br>الحمل الدراسي غير المنتظم للطالب أسبوعياً | 2.4 |
| Total SWL (h/sem)<br>الحمل الدراسي الكلي للطالب خلال الفصل              | 100 |                                                                     |     |

### Module Evaluation

#### تقييم المادة الدراسية

| As                   |                 | Time/Number | Weight (Marks)   | Week Due   | Relevant Learning Outcome |
|----------------------|-----------------|-------------|------------------|------------|---------------------------|
| Formative assessment | Quizzes         | 1           | 5% (5)           | 5, 10      | LO #1, 2, 10 and 11       |
|                      | Assignments     |             |                  |            |                           |
|                      | Projects / Lab. | 5           | 30% (30)         | Continuous |                           |
|                      | Report          |             |                  |            | LO # 5, 8 and 10          |
| Summative assessment | Midterm Exam    | 2 hr        | 15% (15)         | 7          | LO # 1-7                  |
|                      | Final Exam      | 2hr         | 50% (50)         | 16         | All                       |
| Total assessment     |                 |             | 100% (100 Marks) |            |                           |

### Delivery Plan (Weekly Syllabus)

#### المناهج الأسبوعي النظري

| Week   | Material Covered                                                                          |
|--------|-------------------------------------------------------------------------------------------|
| Week 1 | Explanation of Bim methodologies, procedures & standards                                  |
| week 2 | Understanding the difference between Cad& Bim And Cycle of architecture project inter lab |

|         |                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| week 3  | Bim Programs ... introduction to Revit and began to draw plan inside lab                                                                                                                                                                                                                                                                                                                                               |
| week 4  | Architectural Project Preparation<br>Units,Levels,Grids ...File Organization                                                                                                                                                                                                                                                                                                                                           |
| week 5  | Walls ,Types of Walls<br>Thicknesses<br>Materials<br>Doors and Windows<br>Floors<br>Slabs<br>Construction Connections<br>Stairs and Ramps<br>Stair by Component<br>Linking Levels<br>Inter block interior And Exterior and take a project inside lab                                                                                                                                                                   |
| week6   | <b>Spolia</b> technics and what the benefit with bim project in sustainable urban design                                                                                                                                                                                                                                                                                                                               |
| week 7  | A small-scale warm-up project exploring the possibility of creating and documenting an element within the urban landscape and how to use it for the correct function.                                                                                                                                                                                                                                                  |
| week 8  | Quiz & assignment                                                                                                                                                                                                                                                                                                                                                                                                      |
| week 9  | Materials and Architectural Rendering<br>Materials<br>Texture<br>Rendering Fundamentals ,Schedules and Quantities.                                                                                                                                                                                                                                                                                                     |
| week 10 | How to understand the architect's role within BIM, while also understanding the tasks of all engineers and specialists, in order to create an integrated system for project management.                                                                                                                                                                                                                                |
| week 11 | Mid term                                                                                                                                                                                                                                                                                                                                                                                                               |
| week 12 | Looking at Iraqi projects where BIM technology has been implemented, comparing them, and also describing the advantages and disadvantages of BIM.                                                                                                                                                                                                                                                                      |
| Week 13 | Link between program and bim programs                                                                                                                                                                                                                                                                                                                                                                                  |
| week 14 | Applying BIM technology through individual projects for each group of students, drawing on their creative imagination to develop a small project and connect it to the urban landscape, preparing all the necessary drawings and data, and presenting a model. This will foster collaboration among the individuals to produce a high-quality project that can compete in the job market and is ultimately applicable. |
| week 15 | Final exam                                                                                                                                                                                                                                                                                                                                                                                                             |

Delivery Plan (Weekly Lab. Syllabus)  
المنهاج الاسبوعي للمختبر

| Week    | Material Covered |
|---------|------------------|
| Week 1  |                  |
| Week 2  |                  |
| Week 3  |                  |
| Week 4  |                  |
| Week 5  |                  |
| Week 6  |                  |
| Week 7  |                  |
| Week 8  |                  |
| Week 9  |                  |
| Week 10 |                  |
| Week 11 |                  |
| Week 12 |                  |
| Week 13 |                  |
| Week 14 |                  |

Learning and Teaching Resources  
مصادر التعلم والتدريس

|                   |                                                                                                                                             |                           |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
|                   | Text                                                                                                                                        | Available in the Library? |
| Required Texts    | Bim in internet site<br>-paper of architecture BIM<br><b>Integrating Building Information Modeling (BIM)</b>                                | Yes                       |
| Recommended Texts | Bim<br>Mep                                                                                                                                  | No                        |
| Websites          | <a href="https://engbim.com/what-is-the-difference-between-cad-and-bim/">https://engbim.com/what-is-the-difference-between-cad-and-bim/</a> |                           |

| Grading Scheme              |                  |                     |           |                                       |
|-----------------------------|------------------|---------------------|-----------|---------------------------------------|
| مخطط الدرجات                |                  |                     |           |                                       |
| Group                       | Grade            | التقدير             | Marks (%) | Definition                            |
| Success Group<br>(50 - 100) | A - Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                             | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                             | C - Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                             | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                             | E - Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 – 49)      | FX – Fail        | راسب (قيد المعالجة) | (45-49)   | More work required but credit awarded |
|                             | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |
|                             |                  |                     |           |                                       |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.