

**Ministry of Higher Education and Scientific Research  
Scientific Supervision and Scientific Evaluation Apparatus  
Directorate of Quality Assurance and Academic Accreditation  
Accreditation Department**



# **Academic Program and Course Description Guide**

2024

## **Introduction:**

The educational program is a well-planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External Examiner Program.

The academic program description is a short summary of the main features of the program and its courses. It shows what skills students are working to develop based on the program's goals. This description is very important because it is the main part of getting the program accredited, and it is written by the teaching staff together under the supervision of scientific committees in the scientific departments.

This guide, in its second version, includes a description of the academic program after updating the subjects and paragraphs of the previous guide in light of the updates and developments of the educational system in Iraq, which included the description of the academic program in its traditional form (annual, quarterly), as well as the adoption of the academic program description circulated according to the letter of the Department of Studies T 3/2906 on 3/5/2023 regarding the programs that adopt the Bologna Process as the basis for their work.

In this regard, we can only emphasize the importance of writing an academic programs and course description to ensure the proper functioning of the educational process.

## **Concepts and terminology:**

**Academic Program Description:** The academic program description provides a brief summary of its vision, mission and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

**Course Description:** Provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the students to achieve, proving whether they have made the most of the available learning opportunities. It is derived from the program description.

**Program Vision:** An ambitious picture for the future of the academic program to be sophisticated, inspiring, stimulating, realistic and applicable.

**Program Mission:** Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.

**Program Objectives:** They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

**Curriculum Structure:** All courses / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

**Learning Outcomes:** A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

**Teaching and learning strategies:** They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

## Academic Program Description Form

University Name: .Babylon.....

Faculty/Institute: .Engineering.....

Scientific Department: .Architectural Dp.....

Academic or Professional Program Name: ...Architectur Engineering.....

Final Certificate Name: ... Architectural Engineering.....

Academic System: Yeer , simisster,Polonia System .....

Description Preparation Date: 24 / 3 / 2024

File Completion Date: 18 / 4 / 2024

Signature: 

Head of Department Name:

Dr. Hussam Jabbar

Date:

18 / 4 / 2024

Signature: 

Scientific Associate Name:

Date: 18 / 4 / 2024

The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: 21. 04. 2024

Signature: 

  
Approval of the Dean

## Academic Program Description Form

**University Name:** .Babylon.....

**Faculty/Institute:** .Engineering.....

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**Academic or Professional Program Name:** ...Architectur Engineering.....

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**Academic System:** Year , simisster,Polonia System ······

**Description Preparation Date:**

**File Completion Date:**

**Signature:**

**Head of Department Name:**

**Date:**

**Signature:**

**Scientific Associate Name:**

**Date:**

**The file is checked by:**

**Department of Quality Assurance and University Performance**

**Director of the Quality Assurance and University Performance Department:**

**Date:**

**Signature:**

**Approval of the Dean**

## 1. Program Vision

Program vision is written here as stated in the university's catalogue and website.

That

A generation of architects graduated with a solid scientific and professional background and are able to practice the profession of architecture

## 2. Program Mission

- The first one of the objectives (PEO-1) provides the first step towards a career of achievement and service. The needed background of knowledge and skills are acquired to achieve this objective. Students acquire quality education through several avenues, including knowledge, skills and values as reflected in PEO 1. The professional and ethical issues are also preserved in (PEO-1). PEOs 2, 3, 4 and 6 ensure the qualities for self-development and professional growth and improvement of the faculty and administrative and technical staff. Architectural Department PEOs are closely linked to, and consistent with University's and college's missions.

General statements describing what the program or institution intends to achieve.

## 3. Program Objectives

- **2 Process for Establishing Program Educational Objectives PEO Definition**

The primary function of the Arch E program that is compatible with the missions of the College of Engineering of BU is to instill in its graduates a solid foundation of, scientific, art and engineering knowledge in addition to developing the intellectual skills essential for excelling in their careers. The PEOs were discussed with all faculty members in several departmental meetings

## 4. Program Accreditation

**Institution**

**Requirements**

**College**

**Requirements**

Does the program have program accreditation? And from which agency?

**5. Other external influences** nothing

Is there a sponsor for the program?

**6. Program Structure**

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Department requirements	54	300	100%	

<b>Department Requirements</b>				
<b>Summer Training</b>	* This can include notes whether the course is basic or optional.			
<b>Other</b>				



7. Program Description				
Year/Level	Course Code	Course Name	Credit Hours	
			theoretical	practical
2023-2024 First year First Semester (polonia system)				
	UOBAB0106011	Architeturall design II &GraphicII	⊗	⊗
	UOBAB0106012	Free hand		⊗
	UOBAB0106013	Principles of Art & Architecture I	⊗	
	UOBAB0106014	Mathematic I	⊗	
	UOBAB0106016	Computer	⊗	⊗
	UOBABb2	Arabic Language	⊗	
	UOBABb3	Human Rights and Democracy	⊗	
2023-2024 First year Second Semester (polonia system)	UOBAB0106021	Principles of Art & Architecture II		
	UOBAB0106024	Principles of Drawing in Computer		
	UOBAB0106023	Mathematic II		
	UOBABb1	English Language		
	UOBAB0106022	Building Construction I		
	UOBAB0106025	Architectural design II &GraphicII		
2023-2024 Second year Third Semester	UOBAB0106031	Building Construction II		
	UOBAB0106032	History of Architecture I		
	UOBAB0106033	Computer II		
	UOBAB0106034	Structure I		
	UOBAB0106035	Architectural design		
	UOBAB0106036	Graphic		
	UOBAB0106037	Free hand II		
	UOBAB0106038	Human Rights and Democracy		
2023-2024 Second year Forth Semester	UOBAB0106041	Building Construction VI		
	UOBAB0106035	Architectural design		
	UOBAB0106036	Graphic		
	UOBAB01060367	Free hand II		
	UOBAB0106042	Computer II		
	UOBAB0106043	English Language		

	UOBAB0106044	History of Architecture		
	UOBAB0106045	Logic and Design Methodology		
2023-2024 Third year Fifth Semester	UOBAB0106051	Architectural design		
	UOBAB0106052	ComputerIII		
	UOBAB0106053	Building Construction		
	UOBAB0106054	History of Architecture		
	UOBAB0106055	Principles of Planning		
	UOBAB0106056	History of Architecture		
	UOBAB0106057	English Language		
	UOBAB0106058	Illuminating Service		
	UOBAB0106059	Health Services		
2023-2024 Third year Sixth Semester	UOBAB0106051	Architectural design		
	UOBAB0106061	ComputerIII		
	UOBAB0106062	Building Construction		
	UOBAB0106063	Methods of Conservation		
	UOBAB0106064	Principles of Planning		
	UOBAB0106065	History of Architecture		
	UOBAB0106066	Structure II		
	UOBAB0106067	Air Conditioning Services		
2023-2024 Forth year Seventh Semester	UOBAB0106071	Architectural design	⊗	⊗
	UOBAB0106072	Architecture and Climate	⊗	
	UOBAB0106073	Theory of Architecture	⊗	
	UOBAB0106074	Theory of Urban design	⊗	
	UOBAB0106075	Interior Design	⊗	⊗
	UOBAB0106076	Contemporary Arabic Architecture	⊗	
	UOBAB0106077	English Language	⊗	
	UOBAB0106078	Advanced Building Techniques	⊗	
2023-2024 Forth year Eight Semester	UOBAB0106071	Architectural design	⊗	⊗
	UOBAB0106081	Housing	⊗	
	UOBAB0106082	Theory of Architecture	⊗	
	UOBAB0106083	Advanced Building Techniques	⊗	

	UOBAB0106084	Islamic Architecture	⊗	
	UOBAB0106085	Landscape Design	⊗	⊗
	UOBAB0106086	Acoustics of Architecture	⊗	
	UOBAB0106087	Surveying	⊗	⊗
2023-2024 Fifth year Nine Semester	UOBAB0106091	Theory of Architectural Design	⊗	
	UOBAB0106092	Philosophy of Architecture	⊗	
	UOBAB0106093	Urban Design	⊗	⊗
	UOBAB0106094	Iaqui Architecture	⊗	
2023-2024 Fifth year Tenth Semester	UOBAB0106101	Architectural Criticism Theories	⊗	
	UOBAB0106102	Estimation and Specification	⊗	
	UOBAB0106103	Thesis	⊗	⊗
	UOBAB0106104	Profession Practice	⊗	

**Learning outcomes 2**  
**Learning outcomes 3**

**Learning outcomes Statement 2**  
**Learning outcomes Statement 3**

**Learning outcomes 4**  
**Learning outcomes 5**

**Learning outcomes 4**  
**Learning outcomes 5**

<b>8. Expected learning outcomes of the program</b>	
<b>Knowledge</b>	
Learning Outcomes 1	Learning Outcomes Statement 1
<b>Skills</b>	
<b>Ethics</b>	

**9. Teaching and Learning Strategies**

Teaching and learning strategies and methods adopted in the implementation of the program in general.

**10. Evaluation methods**

Implemented at all stages of the program in general.

11. Faculty						
Faculty Members						
Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching	
	General	Special			Staff	Lecturer
Prof.D Hamza Al Maamory	Architecture Eng.	Urban Design	⊗		⊗	
Prof.D Hassan Al Kasby	Architecture Eng.	Design ,Theory	⊗		⊗	
Prof . Muayad Mingher	English language	Methods Of Teaching English	⊗		⊗	
Prof . assist.D Rasha Malik	Architecture Eng.	Urban Planning	⊗		⊗	
Prof . assist.D Ameera Jeleel	Architecture Eng.	Urban Design	⊗		⊗	
Prof . assist.D Ali Aumran Lattif Al-Thahab	Architecture Eng.	Urban Design	⊗		⊗	
Prof . assist.D Evan Hamza	Computer	Distinguish Pictures	⊗		⊗	
Prof . assist Alaa Hadi	Architecture Eng.	Architectural Technology	⊗		⊗	
L.PhD Maged Abbas Daher	Architecture Eng.	Architectural design	⊗		⊗	
L.PhD Mehmood Rzoky	Architecture Eng.	Urban Design	⊗		⊗	
L.PhD Hussam Jabbar	Architecture	Architectural design	⊗		⊗	
L.PhD Aula Abd Ali Khaleal	Architecture	Urban Design	⊗		⊗	
L.PhD Mahmood Amer	Architecture Eng.	Architectural design	⊗		⊗	
Lec. M.Sc Nada Abd Al Ameer	Architecture Eng.	Urban Design	⊗		⊗	
Lec M.Sc. Meha Fuad Muhamaad	Plastic Arts Eng.	Drawing	⊗		⊗	
Assist Prof. PHD Fatima Fahim Al-Khafagy	Civil Eng.				⊗	
L.Assist . M.Sc Serag jabbar kadhun	Architecture Eng.	Architectural design	⊗		⊗	
L.Assit M.Sc Rewaa munaf AL- shlaah	Architecture Eng.	Architectural design	⊗		⊗	
L.Assit M.SC Sara Muhamaad Jameel	Architecture Eng.	Urban Design	⊗		⊗	

Assit . Prof . D Ali Nuaman	Mechanical Eng.	Air conditioning	⊗			⊗
L.Assit M.SC Zehraa Nassir hussain	Architecture Eng.	Urban Design	⊗			⊗
L.Assit M.SC Jumana Labeeb	Architecture Eng.		⊗			⊗
L.Assit M.SC Mustefa Ali	Electricity Eng.	Electronic and Communication	⊗		⊗	
L.D Ali kadhim mania	Civil Eng.	Building Installation	⊗			⊗
Raid Muhammed	Architecture		⊗			⊗
Assist.prof Kareem Al-saffar	Civil Eng.	Surveying	⊗		⊗	
Assist . L .MSC Ghadeer haider	Electricity Eng.	Electronic and Communication				⊗
Assist.prof Haider Hussain Kadhim	Electricity Eng.	Electric Power				⊗
L.Ph.d. Yussra Adil Hmeady	Law	General Law				⊗
Assist.L Hesanean Felah Majid	Education History	History				⊗
Assist.L Hiba muhamaad Sugban	Arabic Language					⊗

<b>Professional Development</b>
<b>Mentoring new faculty members</b>
Briefly describes the process used to mentor new, visiting, full-time, and part-time faculty at the institution and department level.
<b>Professional development of faculty members</b>
Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

<b>12. Acceptance Criterion</b>
<b>(Setting regulations related to enrollment in the college or institute, whether central admission or others)</b>

<b>13. The most important sources of information about the program</b>
State briefly the sources of information about the program.

<b>14. Program Development Plan</b>

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

- Please tick the boxes corresponding to the individual program learning outcomes under evaluation.



### Module 1

Code	Course/Module Title	ECTS	Semester
UOBAB0106013	Principles of Art and Architecture I		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			
<p>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</p>			

## TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

### COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

1. Teaching Institution	College of Engineering University of Babylon
2. University Department/Centre	Principles of Art and Architecture I
3. Course title/code	UOBAB0106013
4. Modes of Attendance offered	
5. Semester/Year	First Semester/first Year
6. Number of hours tuition (total)	1 <sup>st</sup> & 2 <sup>nd</sup> / Academic Year 2023-2024
7. Date of production/revision of this specification	60 hrs. / 2 hrs. per week
8. Aims of the Course	

9. Learning Outcomes, Teaching ,Learning and Assessment Methode

Week number	Subject
First week	The ability of analysis and criticism
Second week	Perception of the architecture in the light of the intellectual development of its critics: Lewis was, Colin Lane, Alvaralto Broadbent, Zvi, Saranan, Ruskin
Third week	Architectural features and acquaintances in the light of the proposals Fterovios and Alberti and Allsopp, etc. ..
Fourth week	Target architecture in the light of the proposals Lewis was, Kirroyon, Antundiades .... etc.
Fifth week	Principles of Design: congruence and similarity and difference of proportionality and balance of unity and homogeneity
Sixth week	Design elements:Line, direction, shape, size, texture and color and optical value
Seventh week	Figure kinds of shapes, production methods Figure) Space (types of spaces)
Eighth week	Explanation of the first architectural trends (in theory and practice)
Week Nine	Organic trend in architecture and the trend in the expressionist architecture
Week Ten	Organic trend in architecture and the trend in the expressionist architecture - supplement-
Week Eleven	General explanation of the architectural trends in the nineteenth and twentieth and its relationship to architecture
Twelfth week	Being in the meaning and Architecture
Thirteenth week	analysis marks (semiotics)
Fourteenth week	Experimental research of aesthetics and criticism

Week number	Subject
First week	Classical direction when the Greeks and Romans, the Renaissance and the seventeenth century
Second	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
Third	Brutality in art, Cubism by explaining the work of the artist Picasso
Fourth	Expressionism in art - Kandinsky future in art
Fifth	Performing Surrealism - Salvador Dali, abstract art - Mondrian
Sixth	Supremacy - Malv Russian Constructivism - my father Steel Movement
Seventh	General explanation of the relationship of artistic trends in architecture
Eighth	Romance and architecture: Modern Art Nouveau movement, Gaudi, expressive architecture trends in expressive movement in the new architecture and expressive
Ninth	Future architecture, and future expressive in the architecture (link points and separation in Architecture)
Tenth	destil architecture, Bauhaus
Eleventh	Universal method masters of architecture, Frank Lloyd Wright, for Akrozah, Mies van role etc
Twelfth	The repercussions of the technical trends in the late modern architecture, and postmodernism and the new modernity (disassembly and folding)

## Module 2

Code	Course/Module Title	ECTS	Semester
UOBAB0106014	Mathematics I	2	1
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
1	2	33	17
Description			

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 architecture students in advanced stages...

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E-mail : mat.fatimah.fahem@uobabylon.edu.iq

## TEMPLATE FOR COURSE SPECIFICATION

### HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

### COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programed specification.

<b><u>1. Teaching Institution</u></b>	College of Engineering University of Babylon
<b><u>2. University Department/Centre</u></b>	Architecture Department
<b><u>3. Course title/code &amp; Description</u></b>	Mathematics  The Course is to provide the student with a general idea about mathematics as basic principles to the student of the College of Engineering and adding some engineering applications which will benefit the student in his progressive stages.
<b><u>4. Programme (s) to which it Contributes</u></b>	Architecture engineering
<b><u>5. Modes of Attendance offered</u></b>	Annual System; There is only one mode of delivery, which is a "Day Program". The students are full time Students, and on campus. They attend full day program in face-to-face mode. The academic year is Composed of 30-week regular subjects.
<b><u>6. Semester/Year</u></b>	1 <sup>st</sup> & 2 <sup>nd</sup> / Academic Year 2023-2024
<b><u>7. Number of hours tuition (total)</u></b>	60 hrs. /2hrs. per week

**8. Date of production/revision of this specification**

Oct. – 10 / 2023

**9. Aims of the Course**

The aim is to provide the student with a general idea about mathematics as basic principles to the student of the College of Engineering and adding some engineering applications which will benefit the student in his progressive stages.

**10. Learning Outcomes**

Adding some engineering applications which will benefit the student in his progressive stages.

**11. Teaching and Learning Methods**

1. Lectures.
2. Tutorials.
3. Homework and Assignments.
4. Tests and Exams.
5. In-Class Questions and Discussions.
6. Connection between Theory and Application.

**12. Assessment Methods**

Examinations, Tests, and Quizzes.

**13. Grading Policy**

Week	Theoretical Content
1	General introduction about the numbers system, translations and the absolute value / first part
2	General introduction about the numbers system, translations and the absolute value / second part
3	Function, its definition, finding the domain and the range
4	Composite functions and their inverse and drawing these functions, their domain and range
5	Composite functions and their inverse and drawing these functions, their domain and range
6	The derivative and its applications (ordering and composite functions and their inverses and the applications of the derivative such as finding the approximate value and the application of maxima and minima)
7	The derivative and its applications (ordering and composite functions and their inverses and the applications of the derivative such as finding the approximate value and the application of maxima and minima)- continued
8	The derivative and its applications (ordering and composite functions and their inverses and the applications of the derivative such as finding the approximate value and the application of maxima and minima)- continued
9	The derivative and its applications (ordering and composite functions and their inverses and the applications of the derivative such as finding the approximate value and the application of maxima and minima)- continued
10	The derivative and its applications (ordering and composite functions and their inverses and the applications of the derivative such as finding the approximate value and the application of maxima and minima)- continued
11	Detailed mapping of functions
12	Detailed mapping of functions
13	Lubietal rule to find the maxima and minima
14	Determinants
15	Conical sections (their various kinds and writing the axes with regard to the sectors)
16	Conical sections (their various kinds and writing the axes with regard to the sectors) - continued
17	Integration: a general introduction about integrations of traditional functions
18	Integration: a general introduction about integrations of traditional functions-continued
19	Definite integration
20	Definite integration
21	Superior functions (for logarithms, natural logarithms function and exponential logarithm, their drawings, derivation and integration)
22	Superior functions (for logarithms, natural logarithms function and exponential logarithm, their drawings, derivation and integration) - continued
23	Superior functions (for logarithms, natural logarithms function and exponential logarithm , their drawings, derivation and integration) – continued\
24	Applications of integration (distances and sizes of areas related around a certain axis, the length of the arc of curves and the rotational surface area)
25	Applications of integration (distances and sizes of areas related around a certain axis, the length of the arc of curves and the rotational surface area) - continued
26	Methods of integration (method by parts, integration by trigonometric ratios and integration by partial fractions)

27	Methods of integration (method by parts, integration by trigonometric ratios and integration by partial fractions)
28	Methods of integration (method by parts, integration by trigonometric ratios and integration by partial fractions)
29	
30	

<u>15. Infrastructure</u>	
<p>Required reading:</p> <ul style="list-style-type: none"> <li>· CORE TEXTS</li> <li>· COURSE MATERIALS</li> <li>· OTHER</li> </ul>	<p><u>Textbook</u></p> <ul style="list-style-type: none"> <li>➤ <b>Ross L. Finney “Calculus” Vol. 1.</b></li> <li>➤ <b>Ross L. Finney “Calculus” Vol. 2</b></li> </ul> <p><u>References</u></p> <p>فرانك جونيوز، اليوت مندلسون "حساب التفاضل والتكامل سلسلة شوم".</p> <p>ادوين برسيل، ديل فاربيرك "التفاضل والتكامل مع الهندسة التحليلية".</p>
Special requirements (include for example workshops, periodicals, IT software, websites)	
Community-based facilities (include for example, guest Lectures , internship , field studies)	
<u>16. Admissions</u>	
Pre-requisites	
Minimum number of students	/
Maximum number of students	60
<u>17. Course Instructors</u>	<p><b>Asst. Prof.</b> Fatimah Fahem  Instructor of Architecture Engineering /  College of Engineering  University of Babylon  Email: mat.fatimah.fahem@uobabylon.edu.iq</p>



### Module 3

Code	Course/Module Title	ECTS	Semester
UOBAB0106016	Computer I		1
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3			

#### Description

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

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ComputerI	اسم المقرر	١.
UOBAB0106016	رمز المقرر	٢.
الاول/2024 بولونيا	الفصل / السنة	٣.
	تاريخ إعداد هذا الوصف	٤.
	أشكال الحضور المتاحة	٥.
	عدد الساعات الدراسية (الكلية/ عدد الوحدات) الكلية(6)	٦.
	* ممكن ان تتضمن الملاحظات فيما اذا كان المقرر أساسي او اختياري .	
	٧. اسم مسؤول المقرر الدراسي ( اذا أكثر من اسم يذكر الاسم: ايغان ماضي حمزه	
	الايمل: <a href="mailto:eng.evan.rubae@uobabylon.edu.iq">eng.evan.rubae@uobabylon.edu.iq</a>	

## ٨. اهداف المقرر

### اهداف المادة الدراسية

1. Introducing the student to the generations and components of computers
2. Definition of the student program equipped with the Windows 7 operating system
3. Dealing with the Word system and how to do research

## ٩. استراتيجيات التعليم والتعلم

### استراتيجية

1. Conducting research and reports on the word program
- 2- Learn what the computer consists of and how it works
- 3- Knowledge of different operating systems

## ١٠. بنية المقرر

طريقة التقييم	طريقة التعلم	اسم الوحدة او الموضوع	مخرجات التعلم المطلوبة	الساعات	الأسبوع
	عرض على الشاشة	Definition of the computer, its components, types and methods of operation	ان يكون الطالب قادر على معرفة الحاسبات وممن تتكون وكيفية عملها	3	الاول
		Personal computer, workstation, minicomputer, mainframe and supercomputer	ان يكون الطالب قادر على معرفة الحاسبات وممن تتكون وكيفية عملها	3	الثاني

		Tower model ,desktop modle and notebook computer	ان يكون الطالب قادر على معرفة الحاسبات وممن تتكون وكيفية عملها	3	الثالث
		Explanation system ms-dos	ان يكون الطالب قادر على معرفة الحاسبات وممن تتكون وكيفية عملها	3	الرابع
		Explanation the order of system ms-dos( cd, dir,copy,del,edit, move,ren,cls)	ان يكون الطالب قادر على معرفة الحاسبات وممن تتكون وكيفية عملها	3	الخامس
		definition of the file and type	ان يكون الطالب قادر على معرفة الحاسبات وممن تتكون وكيفية عملها	3	السادس
		Examination	ان يكون الطالب قادر على معرفة الحاسبات وممن تتكون وكيفية عملها	3	السابع
		The basic functions of the operating system	ان يكون الطالب قادر على معرفة الحاسبات وممن تتكون وكيفية عملها	3	الثامن
		The most important characteristics of Windows 7	ان يكون الطالب قادر على معرفة الحاسبات وممن تتكون وكيفية عملها	3	التاسع

		Some common types of operating systems.	ان يكون الطالب قادر على معرفة الحاسبات وممن تتكون وكيفية عملها	3	العاشر
		Features a word processor program	ان يكون الطالب قادر على معرفة الحاسبات وممن تتكون وكيفية عملها	3	الحادي عشر
		Explanation the list of insert(picture,shape,table,chart)	ان يكون الطالب قادر على معرفة الحاسبات وممن تتكون وكيفية عملها	3	الثاني عشر
		Explanation file (save,save as,open,new,print,exit)	ان يكون الطالب قادر على معرفة الحاسبات وممن تتكون وكيفية عملها	3	الثالث عشر
		Explanation page layout		3	الرابع عشر
		Explanation page view		3	الخامس عشر

#### Module 4

Code	Course/Module Title	ECTS	Semester
UOBABb2	Arabic language	2	1
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
1	1	33	17
Description			
<p>أن الهدف من تدريس مادة اللغة العربية في هذا القسم هو الكفاءة اللغوية للطلبة وتمكينهم من التعبير عن أفكارهم ومشاريعهم بلغة عربية فصيحة وواضحة خالية من الغلط واللون العامي والاعجمي بأبسط الطرق . فاللغة هي أداة الايصال الاولى بين أفراد المجتمع ، ومتى تمكن الانسان من لغته استطاع الوصول الى أذهان الآخرين بحيث يسهل تعامله معهم ويتمكن من تحقيق هدفه في العمل. وان ذلك يؤدي الى تحقيق التوازن المفترض في ثقافته الطلبة فهو يضمن نوعاً من التعادل بين مناهج المادة العلمية ووسيله ايصالها او التعبير عنها وتتضمن هذ المحاضرات تدريس ماياتي : قواعد اللغة العربية ، وقواعد الاملاء ، ومعالجه بعض</p> <p>The aim of teaching the Arabic language in this department is the linguistic competence of the students and enabling them to express their ideas and projects in an Arabic language that is clear and eloquent, free from error and colloquial and non-Arabic color in the simplest way. Language is the primary communication tool between the members of society, and when a person masters his language, he can reach the minds of others so that he can easily deal with them and be able to achieve his goal at work. And that this leads to achieving the supposed balance in the students' culture, as it guarantees a kind of equality between the curricula of the scientific subject and the means of delivering or expressing it. These lectures include teaching the following: the rules of the Arabic language, the rules of spelling, and the treatment of some</p>			

#### Module 5

Code	Course/Module Title	ECTS	Semester
UOBAB0106011	<b>Architectural Design I &amp; Architectural Graphics I</b>		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			
<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 تقنيّة الخط والتكوين الثنائي والثلاثي اضافة الى المقياس الانساني أساسيات التصميم المعماري ثم يستطيع بعدها التعرف على عناصر التصميم المعماري وتعلم مبادئ التصميم المعماري يتاهل بعدها بشكل بسيط للنقد المعماري والتوجيه لتصميم شئ بدائي لمشروع بسيط . حيث يكون منتهيأ لها بشكل كامل من حيث قدرة الطالب على تصميم ما مطلوب منه بشكل يؤدي الى ان يتطور لاحقا في المرحلة الثانية</p>			

# TEMPLATE FOR COURSE SPECIFICATION

## HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

### COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

1. Teaching Institution	College of Engineering
2. University Department/Centre	University of Babylon
3. Course title/code	<b>Architectural Design I &amp; Architectural Graphics I First Year</b>  Identify the basic fundamentals of the two dimensional design: the concept, elements, basic fundamentals of composition and kinds of compositions, using the production technology by using collage to facilitate the idea.
4. Modes of Attendance offered	Annual System ; There is only one mode of delivery, which is a “Day Program”. The students are full time students, and on campus. They attend full day program in face-to-face mode. The academic year is composed of 30-week regular subjects.
5. Semester/Year	1 <sup>st</sup> & 2 <sup>nd</sup> / Academic Year 2023– 2024
6. Number of hours tuition (total)	
7. Date of production/revision of this specification	Oct. – 10 / 2023

## 8. Aims of the Course

The aim is to prepare the student to enter the world of architecture intellectually, conceptually and practically as a basic working rule. Moreover, the subject aims at identifying the student with the concept of architecture by identifying the basic principles of design, composition, three dimensions, the human scale, the surroundings of the urban environment, etc., and developing the student's expressive language of those items. The subject, also, concentrates on developing the student's artistic and creative sense, the style of analytic and synthetic thinking, in addition to developing his awareness and sensation of the natural and built environment and to respect this environment starting from realizing and appreciating the classical urban environment and studying the presentational, plastic and compositional relationships of its elements and components.

## 9. Learning Outcomes, Teaching ,Learning and Assessment Methods

At the end of the class, the student will be able to design by use the basic fundamentals of the two dimensional design: the concept, elements, basic fundamentals of composition and kinds of compositions, using the production technology by using collage to facilitate the idea.

## Architectural Design I The First term

Week	Subject	Specification	Practical exercises
1 <sup>st</sup> week 2 <sup>nd</sup> week	Quality of line	Training the student through a collection of practices on the different qualities of line by using a pencil. Developing the student's expressionistic ability of drawing by using the tools or by freehand to reach different line qualities.	Exercises in pencil by without them hanging the density of lines, the degree of blackness of the pencils, the shapes of lines and their direction, etc.
2 <sup>nd</sup> week 3 <sup>rd</sup> week	Principles of Composition	Identifying the basic fundamentals of the two dimensional design: the concept, elements, basic fundamentals of composition and kinds of compositions.	Applied exercises. Using the production technology by using collage to facilitate the idea.
4 <sup>th</sup> week	A visit to Babylon historical path	Al-Qaser Al-Abbasi , Alqushla and Alsarai, Almustansiriya School, and Alwali House A lecture about the method of drawing and measuring the elevations of historical buildings and applying them locally	Detailed and scaled drawing of a selected part of one of the visited buildings
5 <sup>th</sup> week	Color in composition	Theory of color in and its basic principles - Using Poster colors	Exercises of color circle and deriving colors and their tones
6 <sup>th</sup> week		Color in composition: : introducing color as a new variable in composition	Designing composition with introducing color themes on it.
7 <sup>th</sup> week 8 <sup>th</sup> week	Abstraction and composition	Short project through which the concepts discussed are applied	A real project in which the student abstracts it to its basic elements and then building a new composition by reassembling these elements.
9 <sup>th</sup> week	3 D composition	Introducing volume to as a new variable in composition, space, mass and their expressive values	The previous composition is transformed to third dimension and studying the compositional relationship realized in the third dimension.
10 <sup>th</sup> week		Day Sketch..... Exam A visit to the traditional houses of one of the classical sites in Babylon	A measured drawing of one part of classical elevations.
11 <sup>th</sup> week 12 <sup>th</sup> week	The human scale This periods includes	Final presentation of the exercise It represents the joints between the abstract state and the other values in architecture. Acquaintance with the concept in its applications and distinguishing between scale in the residential building and the public building. The application through the actual study to one of the interior residential spaces, developing the space together with focusing on the study of the space, functional, expressive requirements of space, introducing color and texture and studying furniture , etc.	Scaling and studying the state study about the selected space and its standard dimensions. Developing the space Introducing the color and texture to the space Pre-final presentation
13 <sup>th</sup> week 14 <sup>th</sup> week	exam No. 2 (Day Sketch)		
15 <sup>th</sup> week			



## The second term

Week	Subject title	Description	Practical exercises
Lesson 1	The final presentation of the interior space exercise		Interior model, land plan, sections drawn once by pencil and others by collage in real colors
Lesson 2	Examination No. (3)	Day sketch	
2 <sup>nd</sup> week	A scientific trip to one of the historical locations outside Babylon city		Scaled drawings to one of the important landmarks visited previously
3 <sup>rd</sup> week	<b>Architecture within its urban context</b>	After studying the basic principles of design, it is emphasized here on the necessity of the interaction of the project with its adjacent environment through a series of lectures and field visits to various urban fabrics and to be applied later in the final project which represents summary of all what the student has been exposed to in the first stage.	Studying the location and its limitations, a study about the classical areas.
4 <sup>th</sup> week	A study of the relationship between design and the adjacent external surrounding		Studying the traditional Babyloni House and its relation with the surroundings, the spatial organization, the functional relations...
5 <sup>th</sup> week	<b>The final Project</b> Designing a small building of a specific function (mostly traditional)		A functional study of the selected project
6 <sup>th</sup> week	The activities are simple. They represent the gathering of definite number of spaces of various functions.	<b>Stage of the project:</b>	Continuing the various studies
7 <sup>th</sup> week	Emphasizing the study of the site and the exterior spaces	<ul style="list-style-type: none"> <li>▪ Studying the location and the various environmental effects and different contexts.</li> <li>▪ Studying the activity thoroughly from the functional aspects and the expressive and symbolic requirements</li> <li>▪ Studying the architectural form</li> <li>▪ The architectural concept how to crystallize it</li> <li>▪ Formulation and developing the design concept</li> <li>▪ Concentrating on the building materials and the constructional system</li> </ul>	Final submission of studies and discussion
8 <sup>th</sup> week			Analyzing the location and the functional requirements and getting ready to put the preliminary concept
9 <sup>th</sup> week			The preliminary concept
			Developing the preliminary concept – studying the mass configuration
			1 <sup>st</sup> preliminary presentation
			The requirements: Mass model
			Ground floor plan
			Section
			Mass elevation
10 <sup>th</sup> week		Examination... Day Sketch	
11 <sup>th</sup> week	2nd preliminary presentation / individual criticism and developing the concept		
12 <sup>th</sup> week		Developing the design concept	
13 <sup>th</sup> week		Pre-final presentation	
14 <sup>th</sup> week		Final presentation	

**Architectural Graphics I**  
**The first term**

Week	Subject
1 <sup>st</sup> week	Quality of line- compositions by lines
2 <sup>nd</sup> week	compositions by lines –continued / presentation by using collage
3 <sup>rd</sup> week	compositions by lines- introducing water, trees, pavement, etc., in the architectural drawings
4 <sup>th</sup> week	A field visit to historical buildings- measuring the elevations and copying them on the drawing board – presentation by pencil
5 <sup>th</sup> week	Color principles, color circle, color line
6 <sup>th</sup> week	Tint and shade / complementary colors
7 <sup>th</sup> week	Composition in color
8 <sup>th</sup> week	Abstraction and composition
9 <sup>th</sup> week	Architectural model making
10 <sup>th</sup> week	Drawing top views and elevations
11 <sup>th</sup> week	Drawing sections
12 <sup>th</sup> week	Drawing plans and floor plans
13 <sup>th</sup> week	Plans and sections by pencil and collage
14 <sup>th</sup> week	Concentrating on the techniques of architectural model making
15 <sup>th</sup> week	Concentrating on the drawing of different plans and on the model of the designing project under establishment

**The second term**

Week	Subject
1 <sup>st</sup> week	The technique of drawing by using the pen – varied exercises
2 <sup>nd</sup> week	drawing by using the pen – continued
3 <sup>rd</sup> week	Day sketch
4 <sup>th</sup> week	Visits to traditional areas – site drawings of the real state which are to be transformed to measured drawings of elevations' parts or elements / presentation by using the pen
5 <sup>th</sup> week	Drawing sketches and different plans by using the pen technique
6 <sup>th</sup> week	Drawing plan by ink –continued
7 <sup>th</sup> week	Three dimensional drawings / a lecture and practices about axonometric and isometric
8 <sup>th</sup> week	A simple composition in isometric / the cube, parallelograms, domes, arches
9 <sup>th</sup> week	Exterior isometric
10 <sup>th</sup> week	Exam – exterior isometric of the final project with full presentation
11 <sup>th</sup> week	Shade and shadow in sections
12 <sup>th</sup> week	Shade and shadow in elevations
13 <sup>th</sup> week	Exam about shade and shadow
14 <sup>th</sup> week	Other techniques in presentation
15 <sup>th</sup> week	Different plans by the color pencil technique

<b><u>15. Infrastructure</u></b>	
Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	<ul style="list-style-type: none"> <li>Francis D. K. Ching, Steven P. Juroszek, Architecture: Form, Space, and Order, 2004</li> <li>Steven P. Juroszek , Design Drawing, 2005</li> </ul>
Special requirements (include for example workshops, periodicals, IT software, websites)	<ul style="list-style-type: none"> <li>Many local and international projects, and many examples</li> </ul>
Community-based facilities (include for example, guest Lectures , internship , field studies)	<ul style="list-style-type: none"> <li>Field and scientific visits.</li> <li>Extra lectures by foreign guest lecturers</li> </ul>
<b><u>16. Admissions</u></b>	
Pre-requisites	
Minimum number of students	-
Maximum number of students	40
<b><u>17. Course Instructors</u></b>	<p><b><i>Instructor:</i></b>  <b>Dr.</b>  Mahmmod rezooky Hamad Janjoon  Instructor of Architecture Engineering /  Arch. Engr. Dept.  College of Engineering  University of Babylon  Email:  eng.mahmood.rezooky@uobabylon.edu.iq</p>

## Module 6

Code	Course/Module Title	ECTS	Semester
UOBAB0106012	Freehand Drawing I		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			
<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> <ul style="list-style-type: none"> <li>- Exercising the student's eye on perceiving minute details in tangible physical reality and perceiving proportions, movement, shadow, light and color.</li> <li>- 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:</li> <li>- 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).</li> </ul>			

## TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

## COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

<b><u>1. Teaching Institution</u></b>	<b>College of Engineering University of Babylon</b>
<b><u>2. University Department/Centre</u></b>	<b>Architectural Engineering Department (AED)</b>
<b><u>3. Course title/code &amp; Description</u></b>	<b>Freehand Drawing First Year</b> The student is identified with the most important techniques used in the fundamentals of freehand drawing and the in the design process such as pencils, pens and color pencils.
<b><u>4. Programme(s) to which it Contributes</u></b>	<b>Freehand Drawing</b>
<b><u>5. Modes of Attendance offered</u></b>	Annual System ; There is only one mode of delivery, which is a “Day Program”. The students are full time students, and on campus. They attend full day program in face-to-face mode. The academic year is composed of 30-week regular subjects.
<b><u>6. Semester/Year</u></b>	First and second / Year 2023-2024
<b><u>7. Number of hours tuition (total)</u></b>	4 hrs. per week / 120 hours yearly
<b><u>8. Date of production/revision of this specification</u></b>	Oct. – 10 / 2023
<b><u>9. Aims of the Course</u></b>	
The subject aims to identify the student with the :	

1. The materials of freehand drawing and their types as: pencils, inking pens and color pencils.
2. Planning and drawing cubes with outside multidirectional lines.
3. Principles of the perspective of the geometrical shapes.
4. Shading by (pencils, inking pens and color pencils) by depending on maneuvering of light.
5. Drawing a still life perspective three forms or more with a compositional background.
6. The technologies used in materials (glass, wood, metal) still life drawing of various materials.
7. The techniques used in drawing plants, flowers, fruits and trees.

### 10. Learning Outcomes

1. Developing the student's ability in the basics of selecting the suitable composition and color and to feel this ability.
2. Training the student's eye to recognize the tiny details in the tangible real world and to recognize the percentages, movements, shade and shadow, light and color.
3. Enabling the student to comprehend the items that he will use in the other subjects like design and architectural graphics.
4. The student, who has passed to the second stage, submits no more than 10 artistic works during the summer holiday which represent:
  - a) A documentation of some monuments in Babylon and the governorates.
  - b) Copied drawings of some Iraqi and international buildings.

### 11. Teaching and Learning Methods

- In class Drawing a still life
- In-Class Questions, Discussions and sketches.
- Lectures using data show about art and famous artists.
- Homework.
- Reports and Presentations.
- Out-Class Drawing the surrounding buildings and landscape.
- Trips to the artistic exhibitions.
- Tests and Exams.

## 12. Assessment Methods

- Quick sketches.
- Drawing.
- Tests.
- Final Exam.

## 13. Grading Policy

### 1. Tests:

- There will be a (10) closed books and notes quizzes during the year, The quizzes will count (20%) of the total grade.

### 2. Drawing in class:

There will be a (20) projects during the year, there will count (25%) of the total grade.

### 3. homework:

There will be a (20) projects during the year, there will count (20%) of the total grade.

### 4. The task of the spring holiday:

The task is the transcription of international or Arab or local painting or drawing the facade of famous building by water colors, The task will count (5%) of the total course grade

### 5. Final Exam:

- The final exam will be comprehensive, closed books and Notes, The final exam will count (30%) of the total course grade .

## 14. Course Structure

Week	Hours	Unit/Module or Topic Title	Teaching Method
1	4	Identifying the materials of freehand drawing and their types by pencils	Drawing a still life and homework
2	4	Practices of hand on how to use the circle and zigzag lines	Drawing a still life and homework
3	4	The stage of planning by graphite and training the student to draw cubes	Drawing a still life and homework
4	4	Principles of the perspective of geometrical shapes	Drawing a still life and homework
5	4	Shading by pencils (graphic) by depending on maneuvering of light.	Drawing a still life and homework
6	4	Approximating and abstracting the free forms	Drawing a still life and homework
7	4	Drawing a still life perspective three forms or more with a compositional background	Drawing a still life and homework
8	4	Examination of the previous stage.	Drawing a still life and homework
9	4	A lesson about the technologies used in materials	Drawing a still life and homework
10	4	Studying the perspective with simple exercise about three dimensional shapes	Drawing a still life and homework
11	4	Drawing fruits and flowers from nature	Drawing a still life and homework
12	4	Drawing trees from nature	Drawing the surrounding landscape and homework
13	4	Examination of the previous stage	Drawing a still life and homework
14	4	The stage of the ink pen, studying the drawing techniques by ink pens	Drawing a still life and homework
15	4	How to shade intersecting lines, scattered, dotting, together with drawing many tree leaves differing in shape, size.	Drawing a still life and homework
16	4	Principles of the perspective of geometrical shapes by ink pens	Drawing a still life and homework
17	4	Drawing a still life perspective three forms or more with a compositional background	Drawing a still life and homework
18	4	A lesson about the technologies used in materials	Drawing a still life and homework
19	4	Sketching of several kinds of trees (3 kinds)	Drawing the surrounding landscape and homework
20	4	Drawing fruits and flowers from nature	Drawing a still life and homework
21	4	Examination of the previous stage	Drawing a still life and homework



22	4		The stage of drawing by colored pencils, life geometric drawing	Comparing colors and homework
23	4		Producing color tones which is the color circle	Comparing colors with a number of its possible tones and homework
24	4		Principles of the perspective of geometrical shapes by colored pencils	Drawing a still life and homework
25	4		Drawing a still life perspective three forms or more with a compositional background	Drawing a still life and homework
26	4		A lesson about the technologies used in materials	Drawing a still life and homework
27	4		Drawing trees from nature	Drawing the surrounding landscape and homework
28	4		Drawing fruits and flowers	Drawing a still life and homework
29	4		Examination of the previous stage	Drawing a still life and homework
30	4		Final Examination	Drawing a still life

<b><u>15. Infrastructure</u></b>	
Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	
Special requirements (include for example workshops, periodicals, IT software, websites)	Available websites related to the subject: art, artistic movements, and famous artistes.
Community-based facilities (include for example, guest Lectures , internship , field studies)	-Theoretical lectures accompanied by a slide show of artists and their works, in addition to students' visits to the artistic exhibitions of those artists in Iraq.
<b><u>16. Admissions</u></b>	
Pre-requisites	
Minimum number of students	/
Maximum number of students	40
<b><u>17. Course Instructors</u></b>	Maha Fuaad Mohammad Rabeea Architecture Engineering Department College of Engineering University of Babylon eng.maha.fouad@uobabylon.edu.iq

### Module 7

Code	Course/Module Title	ECTS	Semester
UOBAB0106022	Building Construction I		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			
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.			

## TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

### COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programmed specification.

<u>1. Teaching Institution</u>	College of Engineering University of Babylon
<u>2. University Department/Centre</u>	Architectural Engineering Department (AED)
<u>3. Course title/code &amp; Description</u>	<b>Building Construction I First Year</b>  The subject aims at identifying the First year students in the Department of Architectural Engineering with the different building materials on the local building materials and the related building works (bonding and setting up these materials together)..
<u>4. Programme (s) to which it Contributes</u>	Architectural Engineering
<u>5. Modes of Attendance offered</u>	Annual System ; There is only one mode of delivery, which is a “Day Program”. The students are full time Students, and on campus. They attend full day program in face-to-face Mode. The academic year is composed of 30-week regular Subjects.
<u>6. Semester/Year</u>	1 <sup>st</sup> & 2 <sup>nd</sup> / Academic Year 2023-2024
<u>7. Number of hours tuition (total)</u>	
<u>8. Date of production/revision of this specification</u>	Oct. – 10 / 2023
<u>9. Aims of the Course</u>	
<p><b>The aim</b></p> <p>The subject aims at identifying the First year students in the Department of Architectural Engineering with the different building materials used locally and internationally together with concentrating on the local building materials and the related building works (bonding and setting up these materials together). The curriculum is sequenced through</p>	

## 10. Learning Outcomes

At the end of the class, the student will be able to:

- Make the students able to choose right materials in their designs through identifying the different building materials on the local building materials and the related building works.
- Use the techniques, skills, and modern engineering tools necessary for engineering practice in building materials.
- Understand and apply the principles of dimensional analysis and similitude to building materials.

## 11. Teaching and Learning Methods

1. Lectures.
2. Tutorials.
3. Homework and Assignments.
4. Tests and Exams.
5. In-Class Questions and Discussions.
6. Connection between Theory and Application.
7. Extracurricular Activities.
8. Seminars.
9. In- and Out-Class oral conversations.
10. Reports, Presentations, and Posters.

## 12. Assessment Methods

1. Examinations, Tests, and Quizzes.
2. Extracurricular Activities.
3. Student Engagement during Lectures.
4. Responses Obtained from Students, Questionnaire about Curriculum and Faculty Member (Instructor ).

## 13. Grading Policy

1. Quizzes:
  - There will be a ( 10) closed books and notes quizzes During the academic year.
  - The quizzes will count 5% of the total grade.
2. Tests, 2-3 Nos. and will count 20% of the total course grade.
3. Extracurricular Activities, this is optional and will count extra Marks ( 1 – 5 % ) for the student, depending on the type of activity.
4. Final Exam:
  - The final exam will be comprehensive, closed books and notes, The final exam will count 70% of the total course grade

#### **14. Course Structure**

Week	Hours		Unit/Module or Topic Title	Teaching Method	
1	2		<b>Identifying the local and international building materials /</b>	<b>Lecture and images slides</b>	
2	2		<b>determining the effective factors on the quality of the materials and the methods of selecting them</b>	<b>Lecture and images slides</b>	
3	2		<b>determining the effective factors on the quality of the materials and the methods of selecting them</b>	<b>Lecture and images slides</b>	
4	2		<b>constructional concepts / walls, piers, partitions /</b>	<b>Lecture and images slides</b>	
5	2		<b>constructional concepts / foundations / floors, ceilings</b>	<b>Lecture and images slides</b>	
6	2		<b>Building by bricks / types of bricks /</b>	<b>Lecture and images slides</b>	
7	2		<b>uses of bricks in the building processes /</b>	<b>Lecture and images slides</b>	
8	2		<b>uses of bricks in the building processes /</b>	<b>Lecture and images slides</b>	
9	2		<b>binding by bricks and seaming</b>	<b>Lecture and images slides</b>	
10	2		<b>Building by stone / kinds of stones /</b>	<b>Lecture and images slides</b>	
11	2		<b>types of stone walls / joints in bonding stone masses</b>	<b>Lecture and images slides</b>	
12	2		<b>Building by concrete masses (blocks)</b>	<b>Lecture and images slides</b>	
13	2		<b>Various bonding materials used in bonding blocks</b>	<b>Lecture and images slides</b>	
14	2		<b>Various bonding materials used in bonding blocks</b>	<b>Lecture and images slides</b>	
15	2		<b>Building units in walls / defining them / their characteristics / their kinds.</b>	<b>Lecture and images slides</b>	
16	2		<b>Wood / its uses in building /</b>	<b>Lecture and images slides</b>	
17	2		<b>Wood constructional properties / its defects / wood bearing walls/ timbers (framing)</b>	<b>Lecture and images slides</b>	
18	2		<b>Iron and steel / their uses in building / their</b>	<b>Lecture and images slides</b>	

			<b>constructional properties / structural systems</b>		
19	2		<b>Iron and steel / their uses in building / their constructional properties / structural systems</b>	<b>Lecture and images slides</b>	
20	2		<b>Finishing's materials and works /</b>	<b>Lecture and images slides</b>	
21	2		<b>the materials used and the finishing works of exterior and interior wall</b>	<b>Lecture and images slides</b>	
22	2		<b>/ the materials used and the finishing works of exterior and interior floors</b>	<b>Lecture and images slides</b>	
23	2		<b>Anti-moisture materials / definition of the kinds of the anti-moisture materials and its most important characteristics /</b>	<b>Lecture and images slides</b>	
24	2		<b>how to protect buildings from the leakage of moisture through the ground, through the foundations, through floors and through ceilings</b>	<b>Lecture and images slides</b>	
25	2		<b>Methods of heat transfer /</b>	<b>Lecture and images slides</b>	
26	2		<b>the treatments of the thermal insulation in buildings / fire resisting</b>	<b>Lecture and images slides</b>	
27	2		<b>the treatments of the thermal insulation in buildings / fire resisting</b>	<b>Lecture and images slides</b>	
28	2		<b>The general principles of building technologies /</b>	<b>Lecture and images slides</b>	
29	2		<b>the role of the building materials in the overall building process /</b>	<b>Lecture and images slides</b>	
30	2		<b>Types of the constructional systems.</b>	<b>Lecture and images slides</b>	

### 15. Infrastructure

Required reading:

- CORE TEXTS
- COURSE MATERIALS
- OTHER

- **Building Construction / Atif Alsuhaury.**
- **Building Construction and Load-bearing walls / Anees Juad.**
- **Building Construction /**

	<b>W.B.McKay.</b>
Special requirements (include for example workshops, periodicals, IT software, websites)	<ul style="list-style-type: none"> <li>• Engel, Heino, <b>Structure Systems</b>, Deutsch Verlages-anstalt, Stuttgart 4<sup>th</sup> Edition, 1977.</li> <li>• U.S. Department of Labor, <b>Concrete and Masonry Construction</b>, Occupational Safety and Health Administration press, 1998.</li> </ul>
Community-based facilities (include for example, guest Lectures , internship , field studies)	<ul style="list-style-type: none"> <li>• Field and scientific visits.</li> <li>• Extra lectures by foreign guest lecturers</li> </ul>
<b><u>16. Admissions</u></b>	
Pre-requisites	
Minimum number of students	-
Maximum number of students	40
<b><u>17. Course Instructors</u></b>	<b>Instructor:</b> Alaa Hadi Aubead Fanfak Instructor of Architectural Engineering / Arch. Engr. Dept. College of Engineering University of Babylon Email: <a href="mailto:eng.alaa.hadi@uobabylon.edu.iq">eng.alaa.hadi@uobabylon.edu.iq</a>

**Module 8**

Code	Course/Module Title	ECTS	Semester
UOBABb1	English language I		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			
<p>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.</p>			

<b>1. Course Name:</b>
English Language 11
<b>2. Course Code:</b>
UOBABb1
<b>3. Semester / Year:</b>
First Smelter /2023-2024
<b>4. Description Preparation Date:</b>
3/4/2024
<b>5. Available Attendance Forms:</b>
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>
30 Hours / 2 Units
<b>7. Course administrator's name (mention all, if more than one name)</b>



الاسم: Muayad Mingher Obeid

Email: eng. muayad mingher@uobabylon. edu. Iq

## 8. Course Objectives

### Course Objectives

- Encourage the student to dialogue, use language and build terminology.
- Asking the student to write a summary, private opinion or discussion of the topic.
- As well as learning English grammar

## 9. Teaching and Learning Strategies

### Strategy

The main strategy that will be adopted in delivering this module is to encourage students' participation in exercises, while at the same time improving and expanding their critical thinking skills. This will be achieved through interactive classrooms and tutorials and consideration of the kind of simple experiments involving some sampling activities of interest to students.

## 10. Course Structure

Week Number	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2		<b>Unit One and Unit Two</b> <i>Vocabulary; Skills Work and Everyday English.</i>		
2			Continued <b>Unit One and Unit Two</b>		
3			<b>Unit Three and Unit Four</b> <i>Grammar; Vocabulary; Skills Work and Everyday English.</i>		
4			Continued <b>Unit Three and Unit Four</b>		
5			<b>Unit Five and Unit Six</b> <i>Grammar; Vocabulary; Skills Work and Everyday English.</i>		
6			Continued <b>Unit Five and Unit Six</b>		
7			<b>Unit Seven and Unit Eight</b> <i>/ Grammar; Vocabulary; Skills Work and Everyday English.</i>		
8			Continued <b>Unit Seven and Unit Eight</b>		
9			<b>Unit Nine and Unit Ten</b> <i>Grammar; Vocabulary; Skills Work and Everyday English.</i>		
10			Continued <b>Unit Nine and Unit Ten</b>		
11			<b>Unit Eleven and Unit Twelve</b> <i>Grammar; Vocabulary; Skills Work and Everyday English.</i>		
12			Continued <b>Unit Eleven and Unit Twelve</b>		

<b>13</b>		<b><i>Unit Thirteen and Unit Fourteen</i></b> <i>Grammar; Vocabulary; Skills Work and Everyday English.</i>
<b>14</b>		Continued <b><i>Unit Thirteen and Unit Fourteen</i></b>
<b>15</b>		<b><i>Examination</i></b>

#### Module 9

Code	Course/Module Title	ECTS	Semester
UOBAB0106031	Building Construction II		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			
<p>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 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>			

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

## TEMPLATE FOR COURSE SPECIFICATION

### COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

1. Teaching Institution	College of Engineering University of Babylon
2. University Department/Centre	Building Construction
3. Course title/code	UOBAB0106031
4. Modes of Attendance offered	
5. Semester/Year	1 <sup>st</sup> & 2 <sup>nd</sup> / Academic Year 2023-2024
6. Number of hours tuition (total)	60 hrs. / 4 hrs. per week
7. Date of production/revision of this specification	
8. Aims of the Course	

9. Learning Outcomes, Teaching ,Learning and Assessment Methode

Subject	Week number
the definition of construction materials and local cuisine (identification of factors affecting the quality of the materials and the method of election	First week
construction concepts , the inlay of its walls and partitions floor foundations and ceilings	Second
construction use of brick, types of bric the joints of the the process of construction leveling mortaring	Third
construction using stones, the classification of the stones, types of stone walls, the joints of the stone blocks	Fourth
construction concrete blocks	Fifth

Subject	Week number
wood their uses in building construction- carrier walls and wooden framing	First week
the iron and steel (versatility in construction (structural characteristics, structural systems	Second
materials and termination) materials used in ending the walls and internal and external) materials used in ending the floors are internal and external	Third
The material of anti-humidity) definition of the types (advantages on how to maintain the buildings of the leakage of moisture from the ground through floor foundations and through the walls and ceilings	Fourth
ways heat transfer processors and thermal insulation in the buildings on fire resistant	Fifth
the general principles of construction technologies and the role of construction materials in the total construction process (types of construction systems	Sixth

ملاحظة: يتخلل الدراسة في الفصلين زيارات موقعية وعمل واختبارات.

#### Module 10

Code	Course/Module Title	ECTS	Semester
UOBAB0106032	History of Architecture I		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			
<ol style="list-style-type: none"> <li>Learn about the history of architecture in Iraq</li> <li>To Learn about the emergence of the first civilizations and their settlements in the Mesopotamia Valley.</li> <li>Knowledge of architectural history gives an understanding of the ideas that were important to and shaped past societies.</li> <li>Learn about the most important architectural models in the Mesopotamian civilization.</li> </ol> <p>To study the Main features of architecture with examples.</p>			

1. Course Name:

Mahmood Amer Chabuk	
2. Course Code:	
UOBAB0106032	
3. Semester / Year:	
Second year	
4. Description Preparation Date:	
26.3.2024	
5. Available Attendance Forms:	
classroom	
6. Number of Credit Hours (Total) / Number of Units (Total)	
15 hours for each semester 2 units for each semester	
7. Course administrator's name (mention all, if more than one name) Name: Mahmood Amer Chabuk e-mail: eng.mahmood.aa@uobabylon.edu.iq	
8. Course Objectives	
<b>Course Objectives</b> The study aims to identify the nature of the emergence of the first civilizations, their architecture, and their settlement in Mesopotamia and the Nile, and to trace the development of architecture in them until the Islamic conquests that were influenced by them. It also explores the difference in thought, belief, and geological materials present in both valleys.	<ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> </ul>
9. Teaching and Learning Strategies	
<b>Strategy</b>	The vocabulary focuses on the architecture of Sumer, Akkad, Assyria, and Babylon. It also addresses the architecture of the neighboring regions that influenced or influenced it, such as Parthian, Seleucid, and Sasanian architecture. It also sheds light on the basis of Abbasid architecture, from which it was influenced. Explaining to the students that Iraqi architecture is continuous. The study concludes up to the Nile Valley and its Pharaonic architectures, and comparing its artistic production with Architecture of Wadi Mesopotamia.
10. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-15	30	Getting to know ancient Iraqi architecture from the beginning of its emergence and the most important architectural monuments in the Sumerian, Assyrian and Babylonian eras	Introduction to mesopotamia	classroom	Daily questions Rapid exams. Homework assignments include drawings of the most prominent historical buildings and landmarks
1-15	30	Learn about architecture in Iraq after the emergence of Islam, focusing on the Rashidun, Umayyad, and Abbasid eras.	Architecture in Iraq after the Mesopotamian civilization	classroom	Daily questions Rapid exams. Homework assignments include drawings of the most prominent historical buildings and landmarks

<b>11. Course Evaluation</b>					
30% exam marks 5% marks for quick exam + homework 5% attendance marks + professor's evaluation. 60% final exam					
<b>12. Learning and Teaching Resources</b>					
Required textbooks (curricular books, if any)					
Main references (sources)					
Recommended books and references (scientific journals, reports...)					
Electronic References, Websites					

- 1- The history of Iraqi architecture through the ages, Sharif Youssef.
- 2- The history of architecture through the ages, A. D Al-Maliki tribe.
- 3- The Dialectic of Communication in Iraqi Architecture, Jinan Abdel Wahab Abdel Razzaq
- 4- History of architecture, B. Fletcher

#### Module 11

Code	Course/Module Title	ECTS	Semester
UOBAB0106033	Computers III		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			
<ol style="list-style-type: none"> <li>1. Learn about the computerized engineering drawing program (AutoCAD), its features, and how to deal with it</li> <li>2. Create two-dimensional drawings using the 2D drawing commands</li> <li>3. Quickly produce complex graphics and modify them using Modify tools</li> <li>4. Adding dimensions and texts to two-dimensional graphics and modifying their properties</li> <li>5. Create graphics with blocks and add themes</li> <li>6. Create 3D graphics with 3D drawing commands</li> <li>7. Insert graphics or symbols from the design center and compose a group of graphics from several elements</li> <li>8. Print 2D and 3D drawings in AutoCAD</li> <li>9. Learn about the computerized engineering drawing program (AutoCAD), its</li> </ol>			

features, and how to deal with it

10. Quickly produce complex graphics and make modifications to them using Modify tools

11. Create graphics with blocks and add themes

12. Create 2D drawings using the 2D drawing commands

13. Adding dimensions and text to two-dimensional graphics and modifying their properties

14. Create 3D graphics with 3D drawing commands

Computer III	
اسم المقرر	
UOBAB0106033	٢. رمز المقرر
2024	٣. الفصل / السنة الاول
	٤. تاريخ إعداد هذا الوصف
	٥. أشكال الحضور المتاحة
	٦. عدد الساعات الدراسية (الكلية / عدد الوحدات) (الكلية) (3)
	٧. اسم مسؤول المقرر الدراسي ( إذا أكثر من اسم يذكر الاسم: ايغان ماضي حمزه الايمل: <a href="mailto:eng.evan.rubae@uobabylon.edu.iq">eng.evan.rubae@uobabylon.edu.iq</a>



٨. اهداف المقرر					
اهداف المادة الدراسية					
<p>1 Learn about the engineering drawing program (AutoCAD), its features, and how to use it</p> <p>2. Create 2D drawings using 2D drawing commands</p> <p>3. Quickly produce complex graphics and modify them using editing tools</p> <p>4. Add dimensions and texts to 2D drawings and modify their properties</p>					
٩. استراتيجيات التعليم والتعلم					
Teaching the student the engineering drawing program and the drawing and modification menus					استراتيجية
١٠. بنية المقرر					
الأسبوع	الساعات	التعلم المطلوبة	اسم الوحدة او الموضوع	طريقة التعلم	طريقة التقييم
الاول	3	ان يكون الطالب لديه معرفه باوامر قائمه الرسم والتعديل	Introduction to (AUTOCAD)	عرض على الشاشة حيث يتم عرض كيفية عمل الاوامر والمخططات	يتم توزيع الدرجه حسب الاختبارات اليوميه والشهريه
الثاني	3		Explanation of drawing orders(line,circle,rectangle,arc)		
الثالث	3		Explanation of drawing orders(ellipse,poly line,point)		

		Explanation of drawing orders(polygon,multiline,spline)		3	الرابع
		Explanation of drawing orders(donut,wipe out,revision cloud)		3	الخامس
		Explanation of modification orders(offset,copy ,move,rotate,scale )		3	السادس
		Explanation of modification orders(mirror,trim ,extend,chamfer))		3	السابع
		Explanation of modification orders(hatch,align ,divide,fillet)		3	الثامن

		Explanation of modification orders(measure, break,join,array)		3	التاسع
		<b>Examination</b>		3	العاشر
		A variety of exercises that include many diagrams		3	الحادي عشر
		A variety of exercises that include many diagrams		3	الثاني عشر
		A variety of exercises that include many diagrams		3	الثالث عشر
		A variety of exercises that include many diagrams		3	الرابع عشر

		A variety of exercises that include many diagrams		3	الخامس عشر
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Computer IV	
اسم المقرر	
رمز المقرر	UOBAB0106033
الفصل / السنة	الثاني 2024
تاريخ إعداد هذا الوصف	
5. أشكال الحضور المتاحة	
6. عدد الساعات الدراسية (الكلية / عدد الوحدات) (الكلية (3)	
7. اسم مسؤول المقرر الدراسي ( إذا أكثر من اسم يذكر الاسم: أيفان ماضي حمزه الاييميل: eng.evan.rubae@uobabylon.edu.iq	
اهداف المادة الدراسية	
Create 3D drawings using 3D drawing commands . Set the appropriate dimensions from the list of dimensions in the program	

. Print 2D and 3D drawings in AutoCAD Using layers to organize work					
Teaching the student 3D drawing and how to print diagrams					استراتيجية
طريقة التقييم	اسم الوحدة او الموضوع	مخرجات التعلم المطلوبة	الساعات	الأسبوع	
اختبارات يومية وشهريه	عرض اوامر ومخططات على الشاشة	Explain a list of dimension in AutoCAD(linear,aligned,radius)	3	الاول	
		Explain a list of dimension in AutoCAD(diameter ,angular,multileader )	3	الثاني	
		Explain a list of dimension in AutoCAD(baseline, arc length,continue)	3	الثالث	

		Explain a list of layers in AutoCAD(off and on,freeze,lock)		3	الرابع
		Explain a list of layers in AutoCAD(filters and groups)		3	الخامس
		Explain a list of layers in AutoCAD(The properties of layers)		3	السادس
		Learn how to draw a plan in AutoCAD		3	السابع
		Learn how to draw a plan in AutoCAD		3	الثامن

		Learn how to draw a plan in AutoCAD		3	التاسع
		<b>Examination</b>		3	العاشر
		Explain AutoCAD 3D(box,cone,cylinder)		3	الحادي عشر
		Explain AutoCAD 3D(sphere,pyramid,torus,wedge)		3	الثاني عشر
		Explain AutoCAD 3D(extrude,polysolid,loft)		3	الثالث عشر
		Explain AutoCAD 3D(press/pull,sweep,revolve)		3	الرابع عشر

		Explain AutoCAD 3D(union, subtract, intersect )		3	الخامس عشر
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١١ . تقييم المقرر	
توزيع الدرجة من 011 على وفق المهام المكلف بها الطالب مثل التحضير اليومي والامتحانات اليومية والشهوية والشهرية والتحريرية والتقارير .... الخ	
١٢ . مصادر التعلم والتدريس	
	الكتب المقررة المطلوبة ( المنهجية أن وجدت )
	المراجع الرئيسية ( المصادر )
	الكتب والمراجع الساندة التي يوصى بها (المجلات العلمية، التقارير .... )
	المراجع الإلكترونية ، مواقع الانترنت

AutoCAD Basics 2017 book by Dr. Ali Mahdi



**module 12**

Code	Course/Module Title	ECTS	Semester
UOBAB0106043	English language II		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			
<p>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.</p>			

<b>1. Course Name:</b>
English Language 11
<b>2. Course Code:</b>
UOBAB0106043
<b>3. Semester / Year:</b>
First Smelter /2023-2024
<b>4. Description Preparation Date:</b>
3/4/2024
<b>5. Available Attendance Forms:</b>
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>
30 Hours / 2 Units
<b>7. Course administrator's name (mention all, if more than one name)</b>

الاسم: Muayad Mingher Obeid  
 Email: eng. muayad mingher@uobabylon. edu. Iq

## 8. Course Objectives

### Course Objectives

- Encourage the student to dialogue, use language and build terminology.
- Asking the student to write a summary, private opinion or discussion of the topic.
- As well as learning English grammar

## 9. Teaching and Learning Strategies

### Strategy

The main strategy that will be adopted in delivering this module is to encourage students' participation in exercises, while at the same time improving and expanding their critical thinking skills. This will be achieved through interactive classrooms and tutorials and consideration of the kind of simple experiments involving some sampling activities of interest to students.

## 10. Course Structure

Week Number	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2				
<b>1</b>		<b><i>Unit One and Unit Two</i></b> <i>Vocabulary; Skills Work and Everyday English.</i>			
<b>2</b>		Continued <b><i>Unit One and Unit Two</i></b>			
<b>3</b>		<b><i>Unit Three and Unit Four</i></b> <i>Grammar; Vocabulary; Skills Work and Everyday English.</i>			
<b>4</b>		Continued <b><i>Unit Three and Unit Four</i></b>			
<b>5</b>		<b><i>Unit Five and Unit Six</i></b> <i>Grammar; Vocabulary; Skills Work and Everyday English.</i>			
<b>6</b>		Continued <b><i>Unit Five and Unit Six</i></b>			
<b>7</b>		<b><i>Unit Seven and Unit Eight</i></b> <i>/ Grammar; Vocabulary; Skills Work and Everyday English.</i>			
<b>8</b>		Continued <b><i>Unit Seven and Unit Eight</i></b>			
<b>9</b>		<b><i>Unit Nine and Unit Ten</i></b> <i>Grammar; Vocabulary; Skills Work and Everyday English.</i>			
<b>10</b>		Continued <b><i>Unit Nine and Unit Ten</i></b>			
<b>11</b>		<b><i>Unit Eleven and Unit Twelve</i></b> <i>Grammar; Vocabulary; Skills Work and Everyday English.</i>			
<b>12</b>		Continued <b><i>Unit Eleven and Unit Twelve</i></b>			
<b>13</b>		<b><i>Unit Thirteen and Unit Fourteen</i></b> <i>Grammar; Vocabulary; Skills Work and Everyday English.</i>			
<b>14</b>		Continued <b><i>Unit Thirteen and Unit Fourteen</i></b>			
<b>15</b>		<b><i>Examination</i></b>			

### Module 13

Code	Course/Module Title	ECTS	Semester
UOBAB0106045	Logic and design Methodology		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			
<p>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.</p>			

## TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

### COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

1. Teaching Institution	
2. University Department/Centre	
3. Course title/code	UOBAB0106045

4. Modes of Attendance offered	Logic and design Methodology
5. Semester/Year	
6. Number of hours tuition (total)	
7. Date of production/revision of this specification	
8. Aims of the Course	

Week	Subject
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 and 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 a	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 6	Arch. Design Process: 1- Briefing , 2-Analysis , 3-Synthesis , 4-Evaluation , 5-Design . 1- Briefing : Site selection, Program formulation, Data collection, Problem Definitions, examples study The Architectural Design Problem has three Main Variables (Context -Need - Form )
Week 7	A continuation of the previous lecture : 1-2 Contexts , 1-3 Form , 2-Analysis , 3-Synthesis , 4-Evaluation , 5-Design
Week 8	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 9	A continuation of the previous lecture , Black box method main features , Disadvantages
Week 10	Second design methodology: designer brain as glass box , Main methodology characters Advantages , Disadvantages .
Week 12a	Compromising methodology , The purpose of compromising methodology , Methodology characters . Main steps of design conclude : analysis , composing, evaluate, develop
Week 11	Analysis Phase , Issues to be analyzed include : User requirements - site analysis - designer requirements . : Site analysis objectives , Site elements include two essent
Week 12	Issues to be analyzed include : User - site - designer - spaces requirements . User analysis : Determine user goals , User consideration and expressions factors

**Module 14**

<b>Code</b>	<b>Course/Module Title</b>	<b>ECTS</b>	<b>Semester</b>
UOBAB0106035 UOBAB0106035	<b>Architectural Design II</b>		
<b>Class (hr/w)</b>	<b>Lect/Lab./Prac./Tutor</b>	<b>SSWL (hr/sem)</b>	<b>USWL (hr/w)</b>
<b>Description</b>			
<p><b>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.</b></p>			

## TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

### COURSE SPECIFICATION

<b><u>1. Teaching Institution</u></b>	College of Engineering University of Babylon
<b><u>2. University Department/Centre</u></b>	Architecture Engineering Department (ARC)
<b><u>3. Course title/code &amp; Description</u></b>	<p style="text-align: center;"><b>Architectural Design</b></p> <p>This is the main subject in grade 2. It is a practical lesson for designing several projects along the year, based on the work of students who submit regularly their attempts in solving design problems.</p> <p>The project of each student will be corrected and developed by teachers ,and at the end of each subjects period there will be unique improved design for each student. The directions of teachers will focus on the philosophical, structural, functional aims, as well as form and presentation of each project.</p>
<b><u>4. Programme (s) to which it Contributes</u></b>	<p style="text-align: right;">It has a benefit on each lesson in this grade.</p> <p>It trains the student to understand and be active in all other lessons. It specially contributes with Architectural Graphic lessons and Building Construction lesson.</p>
<b><u>5. Modes of Attendance offered</u></b>	Annual System ; There is only one mode of delivery, which is a “Day Program”. The students are full time students, and on campus. They attend full day program in face-to-face mode. The academic year is composed of 30-week regular subjects.

<b><u>6. Semester/Year</u></b>	1 <sup>st</sup> & 2 <sup>nd</sup> / Academic Year 2023-2024
<b><u>7. Number of hours tuition (total)</u></b>	300 hrs. / 10 hrs. per week
<b><u>8. Date of production/revision of this specification</u></b>	Oct. – 10 / 2023
<b><u>9. Aims of the Course</u></b>	
<p>The second year of architectural study represents an important transitional stage where the student is transferred from the stage of preparing abstract identified designs (represented in the First year) to a more comprehensive stage in its definition of architecture as being (usefulness, firmness, delight). It also concentrates on the concept of local identity and integration with the context and urban scene.</p>	

<b><u>14. Course Structure</u></b>					
Week	Hours		Topic Title	Teaching Method	Assessment Method
1	10		1 <sup>st</sup> project(Exhibition) Survey & study		
2	10		1 <sup>st</sup> project(Exhibition) plans		
3	10		1 <sup>st</sup> project(Exhibition) Sections & elevations		
4	10		2 <sup>nd</sup> project(Family house) Survey & study		
5	10		2 <sup>nd</sup> project(Family house) study		
6	10		2 <sup>nd</sup> project(Family house) First concept		
7	10		2 <sup>nd</sup> project(Family house) Development of concept		
8	10		2 <sup>nd</sup> project(Family house) Plans		
9	10		2 <sup>nd</sup> project(Family house) Development of plans		
10	10		2 <sup>nd</sup> project(Family house) Development of plans		
11	10		2 <sup>nd</sup> project(Family house) Sections & Elevations		
12	10		2 <sup>nd</sup> project(Family house) Sections & Elevations		
13	10		2 <sup>nd</sup> project(Family house)		

			Sections & Elevations		
14	10		2 <sup>nd</sup> project(Family house) Presentation		
15	10		2 <sup>nd</sup> project(Family house) Presentation		
16	10		3 <sup>rd</sup> project(Working drawing) Plans of Site ,foundation ,ground floor		
17	10		3 <sup>rd</sup> project(Working drawing) Plans of first floor, roof & elevation		
18	10		3 <sup>rd</sup> project(Working drawing) Section, tables of doors & windows		
19	10		3 <sup>rd</sup> project(Working drawing) Stairs plan & sections, table of materials.		
20	10		4 <sup>th</sup> project(Educational Centre) Survey & study		
21	10		4 <sup>th</sup> project(Educational Centre) Survey & study		
22	10		4 <sup>th</sup> project(Educational Centre) First concept		
23	10		4 <sup>th</sup> project(Educational Centre) Plans		
24	10		4 <sup>th</sup> project(Educational Centre) Plans		
25	10		4 <sup>th</sup> project(Educational Centre) Plans		
26	10		4 <sup>th</sup> project(Educational Centre) Sections		
27	10		4 <sup>th</sup> project(Educational Centre) Elevations		
28	10		4 <sup>th</sup> project(Educational Centre) Elevations		
29	10		4 <sup>th</sup> project(Educational Centre)		



			Presentation		
30	10		4th project(Educational Centre) Presentation		

<b><u>15. Infrastructure</u></b>	
Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	<ul style="list-style-type: none"> <li>- Ching, Francis D.k., <u>Architecture –Form, Space, and Order</u> , Second Edition, John Wiley &amp; Sons,inc.,Canada. 1996,</li> <li>- Neufert,p&amp;Ernst, <u>Architects’ Data</u>, Third edition, Blackwell Publishing Co.UK,2000</li> <li>- Karlen,M. <u>Space Planning Basics</u>,John Wiley&amp;sons, 2004</li> </ul>
Special requirements (include for example workshops, periodicals, IT software, websites)	<ul style="list-style-type: none"> <li>– Available websites related to the subject.</li> <li>-Periodical seminars</li> </ul>
Community-based facilities (include for example, guest Lectures , internship , field studies)	Guest lectures , internship , visits to locations and buildings)
<b><u>16. Admissions</u></b>	
Pre-requisites	
Minimum number of students	/
Maximum number of students	70
<b><u>17. Course Instructors</u></b>	<p><b>Lecturer</b>          Dr. Hassan Abd Ali Abd Al-Shaheed Al-Qassbi          (Environment &amp; Technology)          Architecture Engineering Department.          College of Engineering          University of Babylon</p> <p><b>Email:</b>          hassanalguesbi@uobabylon.edu.iq</p> <p>Nada Abd Al-Ameer Mubarak          Architecture Engineering Department.          College of Engineering</p>

	University of Babylon <b>Email:</b> eng.nada.abdameer@uobabylon.edu.iq  Dr. Hussam Jabbar Abbas Ghadban  (Environment & Technology) Architecture Engineering Department. College of Engineering University of Babylon <b>Email:</b> <a href="mailto:eng.hussam.jabbar@uobabylon.edu.iq">eng.hussam.jabbar@uobabylon.edu.iq</a>
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**Module 15**

Code	Course/Module Title	ECTS	Semester
UOBAB0106034	Structure I		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			
Statics is a study of force systems acting on rigid bodies not in motion. The analysis includes forces acting in and on beams, trusses and frames in equilibrium. This course is aimed at developing the ability of students to determine load paths, forces and moments in statically determinate structures.			

## TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

### COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

<b><u>1. Teaching Institution</u></b>	College of Engineering University of Babylon
<b><u>2. University Department/Centre</u></b>	Architecture Department
<b><u>3. Course title/code &amp; Description</u></b>	<b>Structure I</b> The subject aims at identifying the student with the subject of forces and their analysis and distribution on the facilities as well as knowing the reactions in the buildings, presenting a summary about trusses and their types and the distribution of force on them and their structural behavior.
<b><u>4. Programme(s) to which it Contributes</u></b>	Architecture engineering
<b><u>5. Modes of Attendance offered</u></b>	Annual System; There is only one mode of delivery, which is a "Day Program". The students are full time Students, and on campus. They attend full day program in face-to-face mode. The academic year is composed of 30-week regular subjects.
<b><u>6. Semester/Year</u></b>	1 <sup>st</sup> & 2 <sup>nd</sup> / Academic Year 2023-2024
<b><u>7. Number of hours tuition (total)</u></b>	60 hrs. /2hrs. per week
<b><u>8. Date of production/revision of this specification</u></b>	Oct. – 10 / 2023
<b><u>9. Aims of the Course</u></b>	
The subject aims at identifying the student with the subject of forces and their analysis and distribution on the facilities as well as knowing the reactions in the buildings, presenting a summary about trusses and their types and the distribution of force on them and their structural behavior.	

**10. Learning Outcomes**

the subject deals with finding the centers of gravity of the known areas. Then the subject studies the different interior stresses and the influences made by the types of forces and moments on the different engineering materials. The subject also considers the subject of elongation and its influence on some structural parts.

**11. Teaching and Learning Methods**

1. Lectures.
2. Tutorials.
3. Homework and Assignments.
4. Tests and Exams.

5. In-Class Questions and Discussions.
6. Connection between Theory and Application.

**12. Assessment Methods**  
Examinations, Tests, and Quizzes.

Week	Theoretical Content
1	General introduction about forces, their kinds and affects
2	Resultant of forces in one level (meeting in one point and the parallel and the non-meeting in one point)
3	Resultant of forces in one level (meeting in one point and the parallel and the non-meeting in one point)
4	Resultant of forces in one level (meeting in one point and the parallel and the non-meeting in one point)
5	Resultant of forces in one level (meeting in one point and the parallel and the non-meeting in one point)
6	The couple (its definition and how to find it)
7	Equilibrium (general introduction, kinds of reactions on construction and applications about the subject)
8	Equilibrium (general introduction, kinds of reactions on construction and applications about the subject)
9	Equilibrium (general introduction, kinds of reactions on construction and applications about the subject)
10	Trusses, their kinds and finding the forces affecting on the internal members of the truss in the method of sections and the method of joints
11	Trusses, their kinds and finding the forces affecting on the internal members of the truss in the method of sections and the method of joints
12	Trusses, their kinds and finding the forces affecting on the internal members of the truss in the method of sections and the method of joints
13	Trusses, their kinds and finding the forces affecting on the internal members of the truss in the method of sections and the method of joints
14	Centers of gravity for areas (of graphical equations and combined areas)
15	Centers of gravity for areas (of graphical equations and combined areas)
16	Centers of gravity for areas (of graphical equations and combined areas)
17	Drawings of axial shear forces, and bending moments in lintels
18	Drawings of axial shear forces, and bending moments in lintels
19	Drawings of axial shear forces, and bending moments in lintels
20	Stresses their definition and applications The stress as a result of axial forces. The stress as a result of shear forces. The-stress as a result of bending moments
21	Stresses their definition and applications The stress as a result of axial forces. The stress as a result of shear forces. The-stress as a result of bending moments
22	Stresses their definition and applications The stress as a result of axial forces. The stress as a result of shear forces. The-stress as a result of bending moments
23	Stresses their definition and applications The stress as a result of axial forces. The stress as a result of shear forces. The-stress as a result of

	bending moments
24	Stresses their definition and applications The stress as a result of axial forces. The stress as a result of shear forces. The-stress as a result of bending moments
25	The reaction its definition and applications.
26	The reaction its definition and applications.
27	
28	
29	
30	

<b><u>15. Infrastructure</u></b>	
Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	<b><u>Textbook</u></b> <b>Ferdinand L.Singer</b> <b>“Engineering Mechanics”.</b> <b><u>References</u></b> <b>Archie Higdon “Engineering Mechanics”.</b>
Special requirements (include for example workshops, periodicals, IT software, websites)	
Community-based facilities (include for example, guest Lectures , internship , field studies)	
<b><u>16. Admissions</u></b>	
Pre-requisites	
Minimum number of students	
Maximum number of students	40
<b><u>17. Course Instructors</u></b>	<b>Asst. Prof.</b> Fatimah Fahem Instructor of Architecture Engineering / College of Engineering University of Babylon Email: mat.fatimah.fahem@uobabylon.edu.iq

## Module 16

Code	Course/Module Title	ECTS	Semester
UOBAB0106037	Freehand Drawing II		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			
<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>			

## TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

### COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

<u>1. Teaching Institution</u>	<b>College of Engineering University of Babylon</b>
<u>2. University Department/Centre</u>	<b>Architecture Engineering Department (AED)</b>
<u>3. Course title/code &amp; Description</u>	<b>Freehand Drawing Second Year</b> Developing the student's skills in using watercolors and poster, in advanced techniques, Developing the student's ability to control the complex shapes in advanced techniques, A practical practice of how to present the projects through perspectives by using colors and to make use of them in the subjects of design.
<u>4. Programme (s) to which it Contributes</u>	<b>Freehand Drawing</b>
<u>5. Modes of Attendance offered</u>	Annual System ; There is only one mode of delivery, which is a “Day Program”. The students are full time students, and on campus. They attend full day program in face-to-face mode. The academic year is composed of 30-week regular subjects.
<u>6. Semester/Year</u>	First and second / Year 2023-2024
<u>7. Number of hours tuition (total)</u>	4 hrs. per week / 120 hours yearly
<u>8. Date of production/revision of this specification</u>	Oct.– 10 / 2023
<u>9. Aims of the Course</u>	
The subject aims to identify the student with the :	
1. Drawing by water colors and poster colors identifying the origins of modern drawing .	



2. Producing color tones which is the color circle. Comparing colors with a number of its possible tones.
3. the reflections of colors on different materials, drawing still life composition.
4. Drawing trees from nature in water colors.
5. Drawing the surrounding landscape of the buildings.
6. The basics of perspective in the buildings of one and two vanishing points,
7. Perspective of high buildings in three vanishing points
8. Drawing pieces of furniture.
9. Quick sketches for buildings with their environmental surrounding by using water colors with inking pens or pencils or colored pencils together.
10. Drawing a figure with simple use of water colors.

### 10. Learning Outcomes

1. Developing the student's skills in using watercolors and poster in advanced techniques.
2. Developing the student's ability to control the complex shapes in advanced techniques.
3. A practical practice of how to present the projects through perspectives by using colors and to make use of them in the subjects of design.
4. Strengthening the student's skill of transforming what is in his mind to an image which can be realized through freehand drawing.
5. Identifying the student with the most outstanding artistic movements and Arab and Iraqi artists. This is performed through theoretical lectures accompanied by a slide show of their works, in addition to students' visits to the artistic exhibitions of those artists in Iraq.
6. Identifying the student with ceramic materials, sculpture and letting him feel the mass through making some exercises by using mud and gypsum which help him to increase his skill in presenting his design project especially the three dimensional ones and that adds to these projects a more beautiful and a more close picture to reality.
7. Drawing some graphic drawings by watercolors and graphic drawings to selected areas in the student's place of living. These drawings and design works are submitted at the beginning of the third academic year.

### **11. Teaching and Learning Methods**

- In class Drawing a still life
- In-Class Questions, Discussions and sketches.
- Lectures using data show about art and famous artists.
- Homework.
- Reports and Presentations.
- Out-Class Drawing the surrounding buildings and landscape.
- Trips to the artistic exhibitions.
- Tests and Exams.

### **12. Assessment Methods**

- Quick sketches.
  - Drawing.
  - Tests.
- Final Exam.

### **13. Grading Policy**

#### 1. Tests:

- There will be a (10) closed books and notes quizzes during the year , The quizzes will count (20%) of the total grade.

#### 2. Drawing in class:

There will be a (20) projects during the year , there will count (20%) of the total grade.

#### 3. homework:

There will be a (20) projects during the year , there will count (20%) of the total grade.

4. The task of the spring holiday:

The task is the transcription of international or Arab or local painting or drawing the facade of famous building by water colors, The task will count (5%) of the total course grade.

5. The task of the Summer holiday:

The task will count (5%) of the total course grade.

5. Final Exam:

- The final exam will be comprehensive, closed books and notes, The final exam will count (30%) of the total course grade .

## 14. Course Structure

Week	Hours	Unit/Module or Topic Title	Teaching Method
1	4	Drawing by water colors	Comparing colors and homework
2	4	emphasizing the intensity of color.	Comparing colors and homework
3	4	Producing color tones which is the color circle	Comparing colors with a number of its possible tones and homework
4	4	Daily examination by monochromatic	Drawing a still life and homework
5	4	still life exercise by natural water color	Drawing a still life and homework
6	4	Exercise about the reflections of colors on materials	Drawing a still life and homework
7	4	Drawing trees from nature in water colors.	Drawing the surrounding landscape and homework
8	4	Studying the details of the surrounding landscape of the buildings	Drawing the surrounding landscape and homework
9	4	Drawing the surrounding landscape of the buildings with evaluation of the previous stage	Drawing the surrounding landscape and homework
10	4	Explaining the basics of perspective in the buildings of one vanishing points	Drawing the surrounding buildings and homework
11	4	Explaining the basics of perspective in the buildings of two vanishing points	Drawing the surrounding buildings and homework
12	4	Explaining the basics of perspective in the interior design of buildings	Drawing the interior of class and homework
13	4	Exercise about drawing kinds of glittering materials technologies, reflection , glass	Drawing a still life and homework
14	4	Drawing fruits and flowers from nature in water colors	Drawing a still life and homework
15	4	Examination at the end of the first term	Drawing a still life and homework
16	4	Studying figures: drawing a figure	Drawing a figure and homework
17	4	Quick sketches by crayons for figures in different positions	Drawing a figure and homework
18	4	Drawing still life composition by crayon colors	Drawing a still life and homework

19	4		Perspective of high buildings in three vanishing points	Drawing the surrounding buildings and homework	
20	4		Quick sketches for a still life composition with background by using water colors and inking pens	Drawing a still life and homework	
21	4		Quick sketches for buildings surrounding by using water colors with inking pens or pencils or colored pencils together	Drawing the surrounding buildings and homework	
22	4		principles of drawing by poster colors	Drawing a still life and homework	
23	4		Drawing a perspective for surrounding buildings	Drawing the surrounding buildings and homework	
24	4		Drawing a perspective in the interior design of buildings by poster colors	Drawing the interior of class and homework	
25	4		Drawing fruits by poster colors	Drawing a still life and homework	
26	4		Drawing trees and flowers by poster colors	Drawing the surrounding landscape and homework	
27	4		Drawing pieces of furniture by poster colors	Drawing the interior of class and homework	
28	4		Drawing kinds of glittering materials technologies, reflection , glass by poster colors	Drawing a still life and homework	
29	4		Quick sketches for still life by using poster colors with inking pens or pencils or colored pencils together	Drawing a still life and homework	
30	4		(Life Examination) the right of the student to choose the suitable material for the drawing	Drawing a still life and homework	

### 15. Infrastructure

Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	
Special requirements (include for example workshops, periodicals, IT software, websites)	Available websites related to the subject : art, artistic movements, famous artistes.
Community-based facilities (include for example, guest Lectures , internship , field studies)	-Theoretical lectures accompanied by a slide show of artists and their works, in addition to students' visits to the artistic exhibitions of those artists in Iraq.

<b><u>16. Admissions</u></b>	
Pre-requisites	
Minimum number of students	<b>70</b>
Maximum number of students	70
<b><u>17. Course Instructors</u></b>	<b><u>Instructor:</u></b>  <b>Asst. Prof.</b> Maha Fuaad Mohammad Rabeea Architecture Engineering Department College of Engineering University of Babylon eng.maha.fouad@uobabylon.edu.iq

#### Module 17

Code	Course/Module Title	ECTS	Semester
UOBAB0106038	Human Rights and democracy	6	5
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
6	2	93	57
Description			
Students know the roots and origins of human rights and their development in human history That students show human rights in ancient civilizations and divine laws To explain to the students human rights in the Mesopotamian civilization To explain to students human rights in other ancient civilizations That students know human rights in Isla.			

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**Module 18**

Code	Course/Module Title	ECTS	Semester
UOBAB0106053	" Building Construction V "	4	5
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	2	63	37
Description			
<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.</p>			

Rewa menafalshalah

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**Module 19**

Code	Course/Module Title	ECTS	Semester
UOBAB010606	Structure II	2	Five
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	-	33	17
Description			
<p>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.</p>			

## TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

## COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

<u><b>1. Teaching Institution</b></u>	College of Engineering University of Babylon
<u><b>2. University Department/Centre</b></u>	Architectural Department
<u><b>3. Course title/code &amp; Description</b></u>	<p style="text-align: center;"><b>Structure II</b></p> <p>The first part of the subject of structures in the third year is specified to generally cover the structural designs of the buildings designed by using reinforced concrete and through presenting the general concept of the basics of forces distribution, the method of finding the static of the structure, the stresses calculations, the strain of the used iron and concrete with analyzing the basics of concrete lintels, ceilings and columns. As for the second part, it is concerned with the basics of designing iron structure buildings, the analysis of iron columns, the stress parts in trusses and the designs of some types of sills. The theoretical coverage includes some scientific applications in a laboratory specialized for raw material and through a group of experiments which include: bricks, terrazzo tiles, concrete, iron of reinforcement, stone (cladding and enveloping), marble, wood and fine and rough aggregate</p>
<u><b>4. Programme(s) to which it Contributes</b></u>	Architecture engineering
<u><b>5. Modes of Attendance offered</b></u>	Annual System; There is only one mode of delivery, which is a "Day Program". The students are full time Students, and on campus. They attend full day program in face-to-face mode. The academic year is composed of 30-week regular subjects.
<u><b>6. Semester/Year</b></u>	1 <sup>st</sup> & 2 <sup>nd</sup> / Academic Year 2023-2024



<b><u>7. Number of hours tuition (total)</u></b>	60 hrs. /2hrs. per week
<b><u>8. Date of production/revision of this specification</u></b>	Oct. – 10 / 2023
<b><u>9. Aims of the Course</u></b>	
The first part of the subject of structures in the third year is specified to generally cover the structural designs of the buildings designed by using reinforced concrete and through presenting the general concept of the basics of forces distribution, the method of finding the static of the structure, the stresses calculations, the strain of the used iron and concrete with analyzing the basics of concrete lintels, ceilings and columns.	

**10. Learning Outcomes**

it is concerned with the basics of designing iron structure buildings, the analysis of iron columns, the stress parts in trusses and the designs of some types of sills. The theoretical coverage includes some scientific applications in a laboratory specialized for raw material and through a group of experiments which include: bricks, terrazzo tiles, concrete, iron of reinforcement, stone (cladding and enveloping), marble, wood and fine and rough aggregate.

**11. Teaching and Learning Methods**

1. Lectures.
2. Tutorials.
3. Homework and Assignments.
4. Tests and Exams.
5. In-Class Questions and Discussions.
6. Connection between Theory and Application.

**12. Assessment Methods**

Examinations, Tests, and Quizzes.

Week	Theoretical Content
1	A general introduction about the structures, forces distribution and the forces types imposed on them
2	A general introduction about the structures, forces distribution and the forces types imposed on them
3	The statically defined and undefined structures and how to find out the static degree of the structure
4	The statically defined and undefined structures and how to find out the static degree of the structure
5	The statically defined and undefined structures and how to find out the static degree of the structure
6	Introduction about reinforced concrete designs (the components of the concrete mixture and the plans of the iron strain stress and the used concrete.
7	Introduction about reinforced concrete designs (the components of the concrete mixture and the plans of the iron strain stress and the used concrete.
8	Analyzing the reinforced concrete lintels designs (reinforcing in the stress and pressure area) to resist the moments of deformation.
9	Analyzing the reinforced concrete lintels designs (reinforcing in the stress and pressure area) to resist the moments of deformation.
10	Analyzing the reinforced concrete lintels designs (reinforcing in the stress and pressure area) to resist the moments of deformation.
11	Analyzing the reinforced concrete lintels designs (reinforcing in the stress and pressure area) to resist the moments of deformation.
12	Designing the concrete lintels to resist sheering.
13	Designing the concrete lintels to resist sheering.
14	Designing the concrete lintels to resist sheering.
15	Introduction about concrete ceilings and their types
16	Designing concrete ceilings of loads transmitted in one direction
17	Designing concrete ceilings of loads transmitted in one direction
18	The concrete columns, its types and specifications a- axial force drawings – deformation moments of columns b- designing short concrete columns
19	The concrete columns, its types and specifications a- axial force drawings – deformation moments of columns b- designing short concrete columns
20	The concrete columns, its types and specifications a- axial force drawings – deformation moments of columns b- designing short concrete columns
21	A general introduction about the steel structure buildings
22	A general introduction about the steel structure buildings
23	A general introduction about the steel structure buildings
24	a-designing and analyzing the single iron columns b-designing the tension parts in trusses c-designing the steel beams by the (M-R) method
25	d-designing and analyzing the single iron columns



## Module 20

Code	Course/Module Title	ECTS	Semester
UOBAB0106058	Building services(Lighting Services,Air-Conditioning Services,Sanitary Services)	6	5
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
6		93	57
Description			
<p>The skill of the student of architecture is not like other students, so the student of architecture had the skill of thinking to transform, through what he thinks, into a tangible reality in the end Note that the student of architecture learns first of all how to think and how to start developing the idea for the design Thinking skill to present the project and how to think to give the design idea From this skill, the student will be able to clarify his idea and convince his teacher to sign it. The installation material has a feature in developing the construction systems for the required plans.</p>			

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## TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

### COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

<b><u>1. Teaching Institution</u></b>	College of Engineering University of Babylon
<b><u>2. University Department/Centre</u></b>	Architectural Engineering Department(AED)
<b><u>3. Course title/code &amp; Description</u></b>	<b>Lighting Servives</b>
<b><u>4. Programme(s) to which it Contributes</u></b>	B.Sc. in Architectural Engineering
<b><u>5. Modes of Attendance offered</u></b>	There is only one mode of delivery, which is a “Day Program”. The students are full time students, and on campus. They attend full day program in face-to face mode. The academic year is composed of 15-week regular subjects include the main examinations . Each subject credit is one 50-minute lecture a week or 3 hours . There is no on-line subject which may be used as supplementary material for the class room instruction .
<b><u>6. Semester/Year</u></b>	1 <sup>st</sup> Academic Year 2023-2024
<b><u>7. Number of hours tuition (total)</u></b>	30 hrs. / 2 hrs. per week
<b><u>8. Date of production/revision of this specification</u></b>	Oct. – 10 / 2023
<b><u>9. Aims of the Course</u></b>	
<p>The subject aims to identify the student with the main principles of the electrical systems (the lighting system, power distribution system, extinguishing system, phone system and interior recall system, etc.) and the methods of calculating the electrical power in relation to the coverage of building requirements like lighting, air-conditioning, sanitary services, etc. The student also identifies the requirements of central electrical services and how to measure the areas required to be contained and the basics of their projection in the building.</p>	

**14. Course Structure**

Week	Hours			
1	2 theory	The main principles of the electrical systems (the lighting system, power distribution system, extinguishing system, phone system and interior recall system, etc.)		
2	2 theory	The main principles of the electrical systems (the lighting system, power distribution system, extinguishing system, phone system and interior recall system, etc.)		
3	2 theory	The main principles of the electrical systems (the lighting system, power distribution system, extinguishing system, phone system and interior recall system, etc.)		
4	2 theory	The basics of calculating the electrical power in relation to the requirements of different buildings		
5	2 theory	The basics of calculating the electrical power in relation to the requirements of different buildings		
6	2 theory	Central services and calculating the areas required in order to be contained		
7	2 theory	Central services and calculating the areas required in order to be contained		
8	2 theory	The basics of designing interior lighting and the integration of the natural lighting and interior lighting and the integration with the air-conditioning system through a group of examples selected for this purpose		
9	2 theory	The basics of designing interior lighting and the integration of the natural lighting and interior lighting and the integration with the air-conditioning system through a group of examples selected for this purpose		
10	2 theory	The basics of designing interior lighting and the integration of the natural lighting and interior lighting and the integration with the air-conditioning system through a group of examples selected for this purpose		
11	2 theory	The basics of designing interior lighting and the integration of the natural lighting and interior lighting and the integration with the air-conditioning system through a group of examples selected for this purpose		
12	2 theory	Monthly examination		
13	2 theory	General smart techniques that effect the skin of buildings		
14	2 theory	General smart techniques that effect the skin of buildings		
15	2 theory	Reports + disscusions		
16				
17				
18				
19				

20					
21					
22					
23					
24					
25					

**15. Infrastructure**

Required reading:

- CORE TEXTS
- COURSE MATERIALS
- OTHER

References:-

- 1- "Window Performance and New Technology" - Proceedings of Building Science Insight Conference - National Research Council of Canada - Ontario - 1992 .
- 2- "Sustainable Architectures and Building Design (SABD) – sustainability Reporting Program" – NAHB Research center, Guide to developing Green Building Program, National Association of Home Builders, U.S.A, 2004 .
- 3- Leupen, Bernard (and others), "Design and Analysis," Van Nostrand Reinhold, New York, 1997 .
- 4- Gissen, D., "Big & Green:" Toward Sustainable Architecture in the 21st Century, Princeton Architectural Press, New York . 2002 .

NAHB Research Center, Guide to Developing Green Building Programs, National Association of Home Builders, 1999 .

- 5- Ruck, Nancy, "Daylight in Buildings – The (IEA's) of Solar Heating and cooling Programme," by International Planning Association, Maryland, U.S.A. , 1998 .
- 6- Gordon, J./ J. Coppock. "Ecosystem management and economic Development," Thinking Ecologically: The Next Generation of Environmental Policy, Yale University Press, New Haven. 1997 .
- 7- Givoni, Baruch, "Manclimate and Architecture," Great Britian Press, 2nd edition, London, 1976 .
- 8- Egan, M. David, "Concepts in Architectural Lighting," Mc Graw Hill, New York, 1983 .
- 9- Martin, F.L. Cap, "Daylighting," Velux Grop, Velux and the Red Velux logo Press, Freance, 2005 .

Lynes, J.A., "Principles of Natural Lighting," New York, 1968 .

- 10- Ellinwood, Scott, "Daylight in the Design Process," AIA, Carifornia, 1985 .
- 11- Evans, Martin, "Housing, Climate and comfort," The

	<p>Architecture Press, London, U.K., 1980 .</p> <p>12- Gland, D.R., "Lighting Design and Application," TVA Office Complex, Gatanoka, U.S.A.,-1980.</p> <p>13- Halse, Albert O., "The Use of Colour in Interior," Mc Graw Hall, New York, 1968 .</p> <p><b>Others</b></p> <ol style="list-style-type: none"> <li>Notebook prepared by the instructor of the course</li> <li>Collection of sheets of solved and unsolved problems and Exams questions</li> </ol>
Special requirements (include for example workshops, periodicals, IT software, websites)	<ul style="list-style-type: none"> <li>• movies and videos.</li> <li>• Available websites related to the subject.</li> <li>• ex- reports</li> </ul>
Community-based facilities (include for example, guest Lectures , internship , field studies)	<ul style="list-style-type: none"> <li>• Field and scientific visits.</li> <li>• Extra lectures by foreign guest lecturers(if founded)</li> </ul>
<b><u>16. Admissions</u></b>	
Pre-requisites	
Minimum number of students	65
Maximum number of students	70

**Module 21**

Code	Course/Module Title	ECTS	Semester
UOBAB0106052	Computers V		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			
<p>The student should be able to simulate reality by creating models and designs that resemble reality</p> <p>2- The student should be creative in the field of interior design and decoration</p>			



Computer V	
اسم المقرر	
UOBAB0106052	
.٢ رمز المقرر	
.٣ الفصل / السنة	
الفصل الاول 2024	
.٤ تاريخ إعداد هذا الوصف	
.5 أشكال الحضور المتاحة	
.6 عدد الساعات الدراسية (الكلية / عدد الوحدات) (الكلية (3)	
.7 اسم مسؤول المقرر الدراسي ( إذا أكثر من اسم يذكر الاسم: ايفان ماضي حمزه الايمل: eng.evan.rubae@uobabylon.edu.iq	
.٨ اهداف المقرر	
اهداف المادة الدراسية	
<p>1- يجب على الطالب أن يكون قادرًا على محاكاة الواقع من خلال إنشاء نماذج وتصاميم تشبه الواقع.</p> <p>2- يجب على الطالب أن يكون مبدعًا في مجال تصميم الديكور والتصميم الداخلي.</p>	
.٩ استراتيجيات التعليم والتعلم	
ان يقوم الطالب بعمل الكثير من المجسمات وما هو موجود في الطبيعة وإضافة المواد والإضاءة والكاميرا للمشهد ليظهر بشكل يحاكي الواقع	
تأثيرات استراتيجية	

١٠. بنية المقرر					
الأسبوع	الساعات	مخرجات التعلم المطلوبة	اسم الوحدة او الموضوع	طريقة التعلم	طريقة التقييم
الاول	3	ان يكون الطالب قادر على انشاء مجسمات تحاكي الواقع	Explain interface 3dmax(menu bar,tool bar)	عرض على الشاشة العديد من الاوامر وبالتالي عمل مجسمات تحاكي الواقع	عمل اختبارات يومية وشهرية
الثاني	3		Explain interface 3dmax(command panel)		
الثالث	3		Explanation of selection orders(move,rotate scale)		
الرابع	3		Explanation of selection orders(select by name,selection filter,set)		
الخامس	3		Explanation of snap orders Explanation of System coordinates(view,world,local)		

		Explanation of clone order and how to import and export		3	السادس
		Explanation of pivotpoint orders Examination		3	السابع
		Explanation of zooming orders		3	الثامن
		Explanation of the list of standard primitive box,teapot,plane,tube ,torus		3	التاسع
		Explanation of the list of standard primitive (cylinder,pyramid,sp here,geosphere,cone)		3	العاشر

		Explanation of the list of advanced objects(hedra, chamf)		3	الحادي عشر
		Explanation of the list of advanced torusknot,oiltank,capsule,)		3	الثاني عشر
		Explanation of the list of advanced (l-ext,c-ext,hose,ringwave,prism)		3	الثالث عشر
		Examination		3	الرابع عشر
		Examination		3	الخامس عشر

١١. تقييم المقرر	
توزيع الدرجة من 011 على وفق المهام المكلف بها الطالب مثل التحضير اليومي والامتحانات اليومية والشهوية والشهرية والتحريرية والتقارير ... الخ	
١٢. مصادر التعلم والتدريس	
	الكتب المقررة المطلوبة ( المنهجية أن وجدت )
	المراجع الرئيسية ( المصادر )
	الكتب والمراجع الساندة التي يوصى بها (المجلات العلمية، التقارير.... )
	المراجع الإلكترونية ، مواقع الانترنت

AUTODESK 3DS MAX 2011

Information interface technology in 3D Max

Basics of 3D Studio Max 2010

#### Module 22

Code	Course/Module Title	ECTS	Semester
UOBAB0106057	English language III		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			
At this stage, the student completes what he was exposed to in the second stage, with an emphasis on the need to encourage the student to speak, use language, and build new expressions. In the this stage, a wide center is also placed on writing and reading texts, especially architectural ones, by choosing some simplified texts to be read, and a discussion of the subject. Parts of two books are approved, and English grammar is learned.			

1. Course Name:
English Language 111
2. Course Code:
UOBAB0106057
3. Semester / Year:
First Smelter /2023-2024

<b>4. Description Preparation Date:</b>
3/4/2024
<b>5. Available Attendance Forms:</b>
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>
30 Hours / 2 Units
<b>7. Course administrator's name (mention all, if more than one name)</b>

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<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>• Encourage the student to dialogue, use language and build terminology.</li> <li>• Asking the student to write a summary, private opinion or discussion of the topic.</li> <li>• As well as learning English grammar</li> </ul>
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	<p>The main strategy that will be adopted in delivering this module is to encourage students' participation in exercises, while at the same time improving and expanding their critical thinking skills. This will be achieved through interactive classrooms and tutorials and consideration of the kind of simple experiments involving some sampling activities of interest to students.</p>

10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
Number	2				
1		<b>Unit One and Unit Two</b> <i>Vocabulary; Skills Work and Everyday English.</i>			
2		Continued <b>Unit One and Unit Two</b>			
3		<b>Unit Three and Unit Four</b> <i>Grammar; Vocabulary; Skills Work and Everyday English.</i>			
4		Continued <b>Unit Three and Unit Four</b>			
5		<b>Unit Five and Unit Six</b> <i>Grammar; Vocabulary; Skills Work and Everyday English.</i>			
6		Continued <b>Unit Five and Unit Six</b>			
7		<b>Unit Seven and Unit Eight</b> <i>/ Grammar; Vocabulary; Skills Work and Everyday English.</i>			
8		Continued <b>Unit Seven and Unit Eight</b>			
9		<b>Unit Nine and Unit Ten</b> <i>Grammar; Vocabulary; Skills Work and Everyday English.</i>			
10		Continued <b>Unit Nine and Unit Ten</b>			
11		<b>/ Unit Eleven and Unit Twelve</b> <i>Grammar; Vocabulary; Skills Work and Everyday English.</i>			
12		Continued <b>Unit Eleven and Unit Twelve</b>			
13		<b>Unit Thirteen and Unit Fourteen</b> <i>Grammar; Vocabulary; Skills Work and Everyday English.</i>			
14		Continued <b>Unit Thirteen and Unit Fourteen</b>			
15		<b>Examination</b>			

### Module 23

Code	Course/Module Title	ECTS	Semester
UOBAB0106051	<b>Architectural Design III</b>		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			
<p><b>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.</b></p>			

## TEMPLATE FOR COURSE SPECIFICATION

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<b><u>1. Teaching Institution</u></b>	College of Engineering University of Babylon
<b><u>2. University Department/Centre</u></b>	Architectural Engineering Department (AED)
<b><u>3. Course title/code&amp; Description</u></b>	<b>Architectural Design</b>  The third academic year is considered the final stage of the database in the field of architectural engineering where the student identifies the compound and multifunctional projects concerning their used and different service spaces
<b><u>4. Programme (s) to which it Contributes</u></b>	Architectural Design (AD)
<b><u>5. Modes of Attendance offered</u></b>	
<b><u>6. Semester/Year</u></b>	1 <sup>st</sup> & 2 <sup>nd</sup> / Academic Year 2023-2024
<b><u>7. Number of hours tuition (total)</u></b>	360 hrs. / 12 hrs. per week
<b><u>8. Date of production/revision of this specification</u></b>	1 <sup>ST</sup> Project /October -13-2023 2 <sup>nd</sup> Project /January -12-2024 3 <sup>rd</sup> Project /June -28-2024
<b><u>9. Aims of the Course</u></b> . The structural decisions and the technology of implementation are considered at the top of the designing presentation through choosing short and middle range projects which require structural courses and which are able to be implemented by reinforced concrete structures or iron structures . Then, in the second term, the student goes on to a multistory project . The subject includes quick tests in order to identify the student's ability in choosing the right designing decisions during a short period of time.	

**10-Learning Outcomes** In the 1<sup>st</sup> course the student identifies the most important structural details which he should know in this respect and a practical accompanying the subject of building structure (III) during the whole academic year

In the 2<sup>nd</sup> course, the student goes to learn the basics of designing typical buildings that have functional requirements like educational, administrative, residential and commercial buildings and to be acquainted with some of the structural details specified for this purpose, in addition to the possibility of applying what he has learned in the subjects the sanitary services, air-conditioning, lighting which have been given to him in the first and second terms.

### **11. Teaching and Learning Methods**

1. Lectures.
2. Seminars.
3. Field Trips.
4. Connection between Theory and Application.
5. In-Class Questions and Discussions.
6. Practical Application for Projects.
7. Homeworks.
8. Tests and Exams.
9. Project's final & Presentations.

**12. Assessment Methods** class work , Homework , presentations, class discussion , evolutionary critique for concepts and projects ideas and appraise critically .

### **13. Grading Policy**

#### **Homeworks:**

- There will be a minimum of 12 sets of project homework during the academic year for the 3 projects will count 70% of the total courses grade .

#### **Quizzes:**

- There will be at least four day sketches during the academic year.
- The quizzes and day sketches will count 30% of the total courses grade.

<b>14. Course Structure</b>			
Week	Hours/ week	project	
<b>1<sup>st</sup> course</b>			
1 ,2 ,3 ,4	12	1	A small multi-events to get to know the student's ability design during the academic year and the second with the first extensive discussion of the work of the students during the summer vacation.
5 -15	12	2	Complex project contains the spaces of small and medium-sized (classrooms and halls multipurpose (complexes Academy, commercial or industrial projects, medium-sized or recreational centers are implemented through structures of reinforced concrete or steel structures with the adoption of some of the details of construction in material installation Buildings III motorcade for the current project
<b>2<sup>nd</sup> course</b>			
1 - 15	12	3	Draft pick multi-storey administrative in nature or an academic or housing, Includes on-storey repeatedly acquainted with the student group on the details of construction approved in such structures construction (reinforced concrete or metal) with the application of an integrated health systems engineering and air conditioning engineering and interior lighting.

**15. Infrastructure**

Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	1. .... Individual and working groups inside classes 2. .... Work field and Class Discussion 3. .... Standard, Architectural and Environmental 4.....Design Books, Example: Architectural data & Architectural standard 5. ....Strategies for Sustainable Architecture
Special requirements (include forexample workshops, periodicals,IT software, websites)	6. ....architectural journals that deal with architectural design 7..... access to global designs and examples of projects given 8. ...see examples of global and local
Community-based facilities (include for example, guest Lectures , internship,field studies)	-----

**16. Admissions**

Pre-requisites	
Minimum number of students	
Maximum number of students	70

<u><b>17. Course Instructors</b></u>	Lecturer of Architectural Design Prof:Hamzah Salman Jasim Al-Mammori Arch. Engr. Dept. College of Engineering University of Babylon Email: : eng.hamzah.salman@uobabylon.edu.iq Lecturer of Architectural Design  Ali Umran Latif Al-Thahab  Arch. Engr. Dept. College of Engineering University of Babylon Email: eng.ali.aumran@uobabylon.edu.iq
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**Module 24**

Code	Course/Module Title	ECTS	Semester
UOBAB0106087	Suveying		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			
<p>Finding the ability to deal and understand with the survey work in the sites in the field of survey engineering related to the work of architecture through design, implementation and audit work, the ability and control to identify the concepts of the sites and imagine their phenomena in a preliminary manner without the need for a field visit. And the survey. This subject is considered as an informational base for the student for the purposes of field studies on the subject of housing in the fourth year and the subject of urban design in the fifth year.</p>			

**Module 25**

Code	Course/Module Title	ECTS	Semester
UOBAB0106065	History of Architecture III		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			
<p>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.</p>			

## Module 26

Code	Course/Module Title	ECTS	Semester
UOBAB0106055 UOBAB0106064	Principles of planning		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			
<p>The objectives of the first course aims to identify the student with the principles of planning, planning process and town planning , the forms of urbanized development in the world, the planning ideas presented previously . Also, to identify the problems and characteristics of the contemporary city, the growth of the population and the distribution of the main land uses within the city based on the foundations and theories of planning and the principles of comprehensive schemes.</p> <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>			

## TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

### COURSE SPECIFICATION

#### Principles of Planning 1:

The objectives of this course aims to identify the student with the principles of planning, planning process and town planning , the forms of urbanized development in the world, the planning ideas presented previously . Also, to identify the problems and characteristics of the contemporary city, the growth of the population and the distribution of the main land uses within the city based on the foundations and theories of planning and the principles of comprehensive schemes.

1. Teaching Institution	University of Babylon
2. University Department/Centre	Architecture Engineering Department
3. Course title/code	Principles of Planning 1
4. Modes of Attendance offered	Weekly
5. Semester/Year	Semester
6. Number of hours tuition (total)	(30) hours
7. Date of production/revision of this specification	1-10-2023
8. Aims of the Course	
<p>The objectives of this course aims to identify the student with the principles of planning, planning process and town planning , the forms of urbanized development in the world, the planning ideas presented previously . Also, to identify the problems and characteristics of the contemporary city, the growth of the population and the distribution of the main land uses within the city based on the foundations and theories of planning and the principles of comprehensive schemes.</p>	

## 10. Course Structure

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	2	To be able to understand	Planning definition, Structure of the planning process, Planning approaches, Planning reasons, Planning levels, Town Planning .	Using a computer and monitor. with individual project	Performing scheduled exams (daily, monthly and final exams) Active participation in the course of the lesson through discussions and feedback
			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 .		
			The contemporary city and its problems (population, urban, environmental, social, economic) .		
			Population (population growth, number of households per household, economically active population, nature of social life, population pyramid)		
			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 .		
			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 .		
			Examination .		



			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 .		
			Planning and design of roads .		
			Planning of commercial areas, Site requirements of the commercial uses .		
			Planning of Industrial area, Industry types (Industrial Services, Light Industries, Heavy Industries, Polluted Industries, Nuclear Reactors), Nature of Climate, Topography, Site Requirements for Industrial Uses .		
			Planning of recreational areas (public parks, coastlines, river banks, social clubs, archaeological areas, sports fields), Site requirements for recreational uses .		
			Educational services (kindergartens, primary schools, middle and secondary schools, institutes and universities) .		
			Health Services, Administrative Services .		
			Special uses and Cemeteries .		

## 11. Infrastructure

### 1. Books Required reading: Open

2. Main references (sources) open	
A- Recommended books and references (scientific journals, reports...).open	
B-Electronic references, Internet sites...Open	
12. The development of the curriculum plan	

# TEMPLATE FOR COURSE SPECIFICATION

## HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

### COURSE SPECIFICATION

#### Principles of Planning 2 :

The objectives of this course aims to identify the student with the principles of planning, planning process and town planning , the forms of urbanized development in the world, the planning ideas presented previously . Also, to identify the problems and characteristics of the contemporary city, the growth of the population and the distribution of the main land uses within the city based on the foundations and theories of planning and the principles of comprehensive schemes.

1. Teaching Institution	University of Babylon
2. University Department/Centre	Architecture Engineering Department
3. Course title/code	Principles of Planning 2
4. Modes of Attendance offered	Weekly
5. Semester/Year	Semester
6. Number of hours tuition (total)	(30) hours
7. Date of production/revision of this specification	1-10-2023
8. Aims of the Course	The objectives of this 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.

## 10. Course Structure

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	2	To be able to understand	Sustainable development and urban planning, Sustainable city strategies, Sustainable urban projects .	Using a computer and monitor. with individual project	Performing scheduled exams (daily, monthly and final exams) Active participation in the course of the lesson through discussions and feedback
			Green belts and the green formation of cities, Analysis of sustainable planning approaches .		
			Beauty, Beauty concept, Aesthetics, Beauty and ugliness, Aesthetic need, Concept of aesthetic value, Sense and aesthetic sense, Perception of shapes .		
			The theory of Gestaltism and form , The evaluation activity, Judgment, Aesthetic preference, Aesthetic experience, Beauty assessment criteria, Aesthetic values of a traditional residential environment .		
			Formation of the urban landscape, Urban landscape, Elements of the urban landscape(Paths , Edges , Districts ,Nodes , Landmarks) .		
			The urban spaces and their importance ,Public squares, piazzas(plazas), and their forms, their types and relation with masses .		
			Examination .		
			Commercial streets and city centers, The style of dealing with them, Continuity,		

			Homogeneity, Stability, Clarity, Significance and others.		
			Street furniture (street furnishing items), Surface finishes, Lighting and advertising ,Telephone cabins, Garbage bags, Plants.		
			The current impacts of the information and communication revolution on the city, The expected urban changes as a result of ICTs .		
			Urban development and modernization, Urban renewal policies (conservation, rehabilitation, redevelopment).		
			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 .		
			Islamic building plans and Legislation in architecture and planning .		
			Discuss student research .		

**Module 27**

Code	Course/Module Title	ECTS	Semester
UOBAB0106063	Methods of Conservation		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			
<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>			

<b>1. Course Name:</b>
Methods of Conservation
<b>2. Course Code:</b>
UOBAB0106063
<b>3. Semester / Year:</b>
Sixth Semester / Third Year
<b>4. Description Preparation Date:</b>
24/3/2024
<b>5. Available Attendance Forms:</b>
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>
30 hours / 15 weeks
<b>7. Course administrator's name (mention all, if more than one name)</b>
Name: ALaa hadi Email:eng.alaa.hadi@uobabylon.edu.iq
<b>8. Course Objectives</b>

<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>•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.</li> </ul> <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> <ul style="list-style-type: none"> <li>•</li> <li>•</li> </ul>
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### 9. Teaching and Learning Strategies

<b>Strategy</b>	<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>
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### 10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Conservation of architectural heritage – basic definitions, conservation objectives, emergence and development of the concept	Conservation of architectural heritage – basic definitions, conservation objectives, emergence and development of the concept	Delivering Lectures using power point ,Mathematics, and physics	Term Tests=30% Quizzes=5% Project=5% Final Exam 60%

2	2	Causes and sources of damage and loss in architectural and urban heritage	Causes and sources of damage and loss in architectural and urban heritage		
3	2	Dimensions of preserving architectural heritage: criteria for selecting buildings, efficiency of use and economic feasibility, social, planning, administrative, financial and legislative dimensions.	Dimensions of preserving architectural heritage:.		
4	2	Preparatory steps for preservation work: inventory, documentation, registration, historical and physical studies	Preparatory steps for preservation work: inventory		
5 and 6	2	Treatments and behavioral standards: processing requirements, treatment selection, treatment levels, post-treatment protection	Treatments and behavioral standards: processing		
7		Mid cores Exam			
8		Rehabilitation and employment of historical buildings: rehabilitation criteria, contemporary job selection, criteria for evaluating efficiency of use	Rehabilitation historical Buildings		



9		The role of rehabilitation in improving the urban environment - local and global examples			
10		The Arab Experience in Architectural Preservation: Its Applications and Problems			
11		International experience in architectural preservation - a showcase of outstanding models			
12 and 13		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	Experiences of Preserving Historical Centers in Baghdad: The Experience of Al-Kadhimiya, Al-Rasheed Street		
14 and 15		Preservation experiences of historical buildings in Baghdad	Abbasid Palace		

**Module 28**

Code	Course/Module Title	ECTS	Semester
UOBAB0106075	Interior Desing		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			
<p>Introducing students to the most specialized design aspects in the interior space about architectural design in general and in two levels: the level of design-oriented thought and the level of human sensory perception of space - Theoretical part: Within the first level, teaching intellectual, cultural and artistic orientations, especially those overlapping with industrial design, craft production, materials, and those overlapping with The artistic thought of decoration, service systems and furniture pieces, with a general historical presentation and a detailed presentation of the development of these ideas and trends during the twentieth century to crystallize the different aspects of contemporary interior design ideas and clarify what they mean in a way that ensures students' understanding of the different circumstances of the emergence of these ideas in their places to reach the ability to distinguish what can be used from them In designs put forward by the student in accordance with the privacy of the community and the special environmental and regional conditions and away from strange propositions that are not appropriate socially, environmentally and culturally.</p>			

**TEMPLATE FOR COURSE SPECIFICATION**

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

**COURSE SPECIFICATION**

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

<b><u>1. Teaching Institution</u></b>	College of Engineering/University of Babylon
<b><u>2. University Department/Centre</u></b>	Architecture Engineering Department
<b><u>3. Course title/code &amp; Description</u></b>	Design of Interior spaces
<b><u>4. Programme(s) to which it Contributes</u></b>	
<b><u>5. Modes of Attendance offered</u></b>	
<b><u>6. Semester/Year</u></b>	Semester
<b><u>7. Number of hours tuition (total)</u></b>	five hours Weekly, Two theoretical, and three practical
<b><u>8. Date of production/revision of this specification</u></b>	
<b><u>9. Aims of the Course</u></b> The aim is to identify the students with the most specialized aspects involved in interior design from those aspects in architectural design in general. This is done on two parts: The theoretical part: the intellectual, cultural and artistic trends are taught especially those overlapping with the industrial design, craftsmen production, materials and those trends that overlap with the artistic intellect of ornamenting, services and light systems, pieces of furniture. The practical part: the term includes two projects: one of them lasts for four-five weeks and aims to enlarge the students' imagination and creativeness at the intellectual levels and using the basic interior design elements in shape, color, light and furniture.	
Knowledge of Interior spaces in architecture and its main and second Elements and it's his topical styles and how to design it	

## 14. Course Structure

Week					
1		1/10/2013	Introduction of I.D		
2		8/10/2013	Definition of Interior space.		
3		15/10/2013			
4		22/10/2013	Elements of Interior space.		
5		29/10/2013	Systems of Interior space.		
6		5/11/2013	Interior space in me sop ataimaian Architectural..		
7		12/11/2013	Interior space after end of Babylon civil 2ataen.		
8		19/11/2013	Interior space in Grouch Arch and bisection Arch.		
9		26/11/2013	Interior space in Gothic and Renascence Arch.		
10		3/12/2013	Interior space in Islamic Arch .		
11		10/12/2013	Interior space in modern Arch.		
12		17/12/2013	Interior space in postmodern Arch.		
13		24/12/2013	Interior space in Coutem priory movement Arch.		
14		31/12/2013	How to design public spouse.		
15		7/1/2014	How to design public spouse		

### **The theoretical part**

In the first level, the intellectual, cultural and artistic trends are taught especially those overlapping with the industrial design, craftsmen production, materials and those trends that overlap with the artistic intellect of ornamenting, services and light systems, pieces of furniture. It also includes a general historical presentation and a detailed presentation of the developments of these thoughts and trends during the twentieth century concerning the conclusion of the different attitudes of the contemporary interior design thoughts and explaining what they mean in away that guarantees the student's understanding of the different circumstances that have led to evolution of these thoughts in their places in order to reach the ability to recognize what thoughts can be benefited from in the designs presented by the students and in accordance with the peculiarity of the Iraqi community and the special environmental and territorial conditions and far away from the strange ideas or presentations which are socially, environmentally and culturally inappropriate.

The second level is being put forward according to man's perception and acceptance of the interior surrounding space, the human variables at the individual and different communities' level in the perceptual and appreciative values in understanding and using the spaces and their functional standards and studying the characteristics of spaces' sequences and moving among them and their abstract and symbolic influences on man.

### **The practical part**

The term includes two projects: one of them lasts for four-five weeks and aims to enlarge the students' imagination and creativeness at the intellectual levels and using the basic interior design elements in shape, color, light, furniture and their role in the concentration on the real aspects. The second project lasts for two months and it adopts a real and local framework of a special characteristic in thought and the real executive application of real spaces and is put forward as a design problem in all its functional and executive levels in addition to the intellectual, abstract and philosophical levels and the style of

expressing the nature and specialty of the Iraqi community.  
 Between the two projects, there is a quick practical design test. During the theoretical part the student has a term examination in addition to the final examination. The students may be given other tasks (unprogrammed) to complete the subject's requirement.

**15. Infrastructure**

Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	
Special requirements (include for example workshops, periodicals, IT software, websites)	
Community-based facilities (include for example, guest Lectures , internship , field studies)	

**16. Admissions**

Pre-requisites	
Minimum number of students	
Maximum number of students	

<b><u>17. Course Instructors</u></b>	Rawaa abd. alshalah \Arch. Engr. Dept. College of Engineering University of Babylon Email: : eng.hamzah.salman@uobabylon.edu.iq eng.rawaaabd.alshalah@uobabylon.edu.iq
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## Module 29

Code	Course/Module Title	ECTS	Semester
UOBAB0106078	Advanced Building Technologies	4.00	7
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	1	63	37
Description			
<p>The Module aims to introduce the student to the building structural systems used by reviewing these structural systems and identifying the characteristics and behavior of each system, Where the transmission of forces and their impact on the architectural form of the system with identify the details approved for each of them. Examination of international architectural projects with models of buildings, including advanced technologies and construction systems, to increase the knowledge of the student and open new horizons for them to launch in realizing the architectural ideas that they work on in the architectural design lessons to reach an integrated project intellectually, design and construction. Knowing the tools, mechanisms and skills necessary for the methods of implementing buildings and addressing the problems encountered when implementing architectural projects</p>			

## TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

### COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

<u>1. Teaching Institution</u>	College of Engineering University of Babylon
<u>2. University Department/Centre</u>	Architectural Engineering Department (ARC)
<u>3. Course title/code &amp; Description</u>	<b>Advanced Building Fourth Year</b> The subject aims to identify the students with technology (in general) as an intellect and application and the building technology in particular, and its relationship with architecture as a social requirement with the concentration on the ways to upgrade technology from primitiveness and craftsmanship to the modern scientific/industrial technology, within a complementary and comprehensive view in the architectural act.
<u>4. Programme(s) to which it Contributes</u>	Architectural Engineering ( ARC )
<u>5. Modes of Attendance offered</u>	<b>The program:</b> annual- theoretical lectures, examinations, discussions, and preparing reports
<u>6. Semester/Year</u>	1 <sup>st</sup> & 2 <sup>nd</sup> /Academic Year 2023-2024
<u>7. Number of hours tuition (total)</u>	60 hrs. / 2 hrs. per week
<u>8. Date of production/revision of this specification</u>	Oct. – 10 / 2023
<u>9. Aims of the Course</u>	
<ul style="list-style-type: none"> <li>a. Identify the students with technology (in general) as an intellect and application and the building technology in particular.</li> <li>b. Its relationship with architecture as a social requirement with the concentration on the ways to upgrade technology from primitiveness and craftsmanship to the modern scientific/industrial technology, within a complementary and comprehensive view in the architectural act.</li> </ul>	

10. Learning Outcomes

At the end of the class, the student will be able to:

- a. Analyze and discuss structural type of each individual building.
- b. Be aware of many kinds of construction technologies adapted to buildings.
- c. Relation between architectural and structural form.
- d. Choose the Wright structural system suitable to architectural form.
- e. Learn more about construction details.
- f. Discover more materials suitable for architecture.

### 11. Teaching and Learning Methods

- a. Lectures.
- b. Tutorials.
- c. In-Class Questions and Discussions.
- d. Connection between Theory and Application.
- e. Seminars.
- f. In- and Out-Class oral conversations.
- g. Reports, Presentations, and Posters.

### 12. Assessment Methods

- a. Examinations, Tests, and Quizzes.
- b. Student Engagement during Lectures.
- c. Responses Obtained from Students, Questionnaire about.
- d. Curriculum and Faculty Member (Instructor).

### 13. Grading Policy

#### **Quizzes:**

- a. There will be (30 degrees of 100) closed books and notes quizzes during the academic year, the quizzes will count 5% of the total course grade.
- b. Tests, 2-3 Nos. and will count 20% of the total course grade.
- c. Extracurricular Activities, this is optional and will count extra marks (5 %) for the student, depending on the type of activity.
- d. Final Exam:



## 14. Course Structure

Week					
1	<p>Introductions, definitions and terms / types of technology / the economical and social factors that influence the selection of the appropriate technology / basics of technology the material aspect and its rules / the influence of material in the technological act (designing) / construction and structure and the relationship between them / how should we understand the structure – how do we choose the appropriate structure – structural systems – methods of classification – the properties and language of every system – the distinguished characteristics of the structural elements (the column, vault, truss, floor basement, dome) – the frame structure – the long span structure.</p>	2	3	4	5
2		6	7	8	9
3		10	11	12	13
4		14	15	16	17
5		18	19	20	21
6		22	23	24	25
7		26	27	28	29
8		30			
9					
10					
11	<p>The services: their importance and degree of influencing architecture, separation and integration in the constructional activity - the architectural designer role's changing</p>	12	13	14	15
12		16	17	18	19
13		20	21	22	23
14		24	25	26	27
15		28	29	30	
16					
17					
18					
19					
20					
21					
22	<p>Basics and principles of raising construction to a modern technology – scaling – modular coordination, the previous production of components, machinery, the performance description.</p> <p>The technical base and its rules – design, production, handicraft production and its characteristics, the quantity production and its requirements – implementation and its types (the classical, the post classical, the directed, semi manufactured and the manufactured) – implementation and its degree of influence in the design decision.</p>	23	24	25	26
23		27	28	29	30
24					
25					
26					
27					
28					
29					
30					

## 15. Infrastructure

Required reading:

- CORE TEXTS
- COURSE MATERIALS
- OTHER

**Textbook:**

“Structure Systems”; with a preface by Rapson and an article by Hannskarl Bandel.  
Deutsche Verlags-Anstalt Stuttgart.

	1967 printed in Germany. <b>References:</b> Notebook prepared by the instructor
Special requirements (include for example workshops, periodicals, IT software, websites)	<ul style="list-style-type: none"> <li>• Available websites related to the subject.</li> <li>• Extracurricular activities.</li> </ul>
Community-based facilities (include for example, guest Lectures , internship , field studies)	<ul style="list-style-type: none"> <li>• Scientific Videos.</li> <li>• Extra lectures by foreign guest lecturers.</li> </ul>
<b><u>16. Admissions</u></b>	
Pre-requisites	<b>ARC 404 Advanced Building Technology</b>
Minimum number of students	60
Maximum number of students	75
<b><u>17. Course Instructors</u></b>	<b><i>Instructor:</i></b> <b>Lecturer:</b> <b>Seraj Jabbar Kadhum Al-Murshedy</b> Arch. Engr. Dept. College of Engineering University of Babylon Email: eng.seraj.jabar@uobabylon.edu.iq

**Module 30**

Code	Course/Module Title	ECTS	Semester
UOBAB0106072	Architecture and Climate Technologies		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			
<p>Introducing the student to a wide information base for all the basic concepts of the interrelationship between the natural environment and architecture. It started with the natural climatic factors and their physical facts, and at the regional level in general and at the local level for the regions of Iraq in particular as an example of hot, dry regions.</p> <p>Then entering into the concepts of the permanent exchange of action between the factors and the physiological requirements of the human being, as well as the climatic negatives and positives and the method of protection are clarified before the student in order to reach planning and design values that may be the basis for determining the level of the local climate for architecture and the local climate in the interior spaces</p> <p>The study focuses primarily on defining the lines of basic treatments in residential and public buildings so that the student can adopt them in his design work, whether at the academic level or at the application level.</p>			

<b>1. Course Name:</b>
Architecture and Climate
<b>2. Course Code:</b>
UOBAB0106072
<b>3. Semester / Year:</b>
Seventh Semester / fourth year
<b>4. Description Preparation Date:</b>
24/3/2024
<b>5. Available Attendance Forms:</b>
In classroom
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>
30 Hours / 15 weeks / units

7. Course administrator's name (mention all, if more than one name)					
Name: Alaa Hadi  Email:eng.alaa.hadi@uobabylon.edu.iq					
8. Course Objectives					
<b>Course Objectives</b>		<ul style="list-style-type: none"> <li>• Knowledge of student to introducing the student to a broad information base of all the basic concepts of the mutual relationship between the natural environment and architecture. Starting with climatic factors and their physical facts at the regional and local levels during one semester.</li> <li>•</li> <li>•</li> </ul>			
9. Teaching and Learning Strategies					
<b>Strategy</b>	Architecture and climate strategy 1. Graduating highly qualified architects. graduation 2. Building leadership qualities among its graduates by teaching them how to lead, solve design environmental problems and teamwork 3 . Instill in graduates a spirit of imagination and a commitment to acquiring sustainable environmental knowledge and community service. 4. Contribute project ideas and conduct research for the benefit and development of society. 7. Provide a working environment A good sustainable social program for students, faculty members and other employees, and considering it as an applied example to follow, with a focus on the academic standards of the subject (environmental, economic, and social) to provide the market with qualified architectural cadres to solve environmental architectural problems in particular				
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	General environmental concepts and familiarizing students with the most important climatic characteristics of different regions of	Climate and Man :-	Delivering Lectures using power point ,Mathematics, and physics	Term Tests=30% Quizzes=5% Project=5% Final Exam 60%

		the world, focusing on hot climate areas (humid and dry).			
2		Identify the most important climatic variables affecting living organisms and plants, the continuity of their impact, and the organism's responses to adapt to these variables over time	Bio Climate Calender in Iraq		
3		The principles of bioclimatic assessment and devising the most important general planning and design decisions to control the external and internal environment in terms of choosing the two-dimensional length and width of the ideal shape.	Form and architecture in hot regions		
4		Principles of bioclimatic assessment and devising the most important general planning and design decisions to control the external and internal environment	Solar rays and the concept of orientation in buildings		
5 and 6		Solar rays and orientation concepts in hot, dry regions through a broad review of the origins of the relationship between the intensity of solar thermal loads and orientation for all possibilities of the horizon circle	Solarization and shading in residential buildings		

7		Calculations of thermal loads through approved guidance for building facades with application to a set of selected examples	Heat transfer in buildings- :		
8		<b>mid corse</b>			
9		Concepts in the origins of urban formation in relation to the peculiarities of the surrounding natural environment and identifying the most important decisions adopted in relation to the influential climatic conditions	The ancient urban fabric system and buildings with an internal courtyard		
10		Concepts in the basics of heat transfer through the building's outer shell and their origins in adopting architectural details to reduce the effect of heat transfer through thermal insulation	Thermal transfer and choosing the ideal climatic form- :		
11		General concepts in the specificities of open spaces in hot, dry and humid areas, and a review of all Arab traditional solutions and the possibility of adopting them in the contemporary urban fabric.	Origins of summer space work		
12		in General concepts in natural lighting and the principles of its use in traditional architecture. Calculations of natural lighting and its specificities hot, dry areas.	Natural lighting :-		
13		Concepts in the origins and behaviors of air movement and its impact on reducing thermal burdens in hot, dry regions	Natural ventilation		

14		Sustainable architecture :- The goals of sustainable architecture and methods of applying and measuring them, with examples of global experience in how to apply them	Sustainable architecture		
15		<b>Second mid corse</b>			

**Module 31**

Code	Course/Module Title	ECTS	Semester
UOBAB010606	Structure III	4	Seven
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2	63	37
Description			
<p>This course aims to teach students the skills of designing and analyzing structural members made of reinforced concrete. Where the student designs and analyzes reinforced concrete beams with rectangular sections. As well as the design and analysis of one-way or two-way reinforced concrete slabs. Design and analysis of reinforced concrete columns with axial loading or with decentralized loading. Teaching the student about steel structures and the method of designing and analyzing them, and teaching the student how to choose the appropriate steel sections for engineering projects.</p>			

**Module 32**

Code	Course/Module Title	ECTS	Semester
UOBAB0106077	English language iv		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			
<p>At fourth stage, the student completes what he was exposed to in the third stage, with an emphasis on the need to encourage the student to speak, use language, and build new expressions. By selecting a few subjects to read and engaging in a debate of the topic, this stage also places a large emphasis on writing and reading texts. English grammar is studied, and portions of two works are accepted.</p>			

<b>1. Course Name:</b>
English Language 1v
<b>2. Course Code:</b>
UOBAB0106077
<b>3. Semester / Year:</b>
First Semester /2023-2024



<b>4. Description Preparation Date:</b>					
3/4/2024					
<b>5. Available Attendance Forms:</b>					
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>					
30 Hours / 2 Units					
<b>7. Course administrator's name (mention all, if more than one name)</b>					
<p style="text-align: right;">Muayad Mingher Obeid : الاسم eng. muayad mingher@uobabylon. edu. Iq : Email</p>					
<b>8. Course Objectives</b>					
<b>Course Objectives</b>			<ul style="list-style-type: none"> <li>• Encourage the student to dialogue, use language and build terminology.</li> <li>• Asking the student to write a summary, private opinion or discussion of the topic.</li> <li>• As well as learning English grammar</li> </ul>		
<b>9. Teaching and Learning Strategies</b>					
<b>Strategy</b>		The main strategy that will be adopted in delivering this module is to encourage students' participation in exercises, while at the same time improving and expanding their critical thinking skills. This will be achieved through interactive classrooms and tutorials and consideration of the kind of simple experiments involving some sampling activities of interest to students.			
<b>10. Course Structure</b>					
Week Number	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1		<b>Unit One and Unit Two</b> <i>Vocabulary; Skills Work and Everyday English.</i>			
2		Continued <b>Unit One and Unit Two</b>			
3		<b>Unit Three and Unit Four</b> <i>Grammar; Vocabulary; Skills Work and Everyday English.</i>			
4		Continued <b>Unit Three and Unit Four</b>			
5		<b>Unit Five and Unit Six</b> <i>Grammar; Vocabulary; Skills Work and Everyday English.</i>			
6		Continued <b>Unit Five and Unit Six</b>			
7		<b>Unit Seven and Unit Eight</b> <i>/ Grammar; Vocabulary; Skills Work and Everyday English.</i>			

<b>8</b>		Continued <i>Unit Seven and Unit Eight</i>
<b>9</b>		<i>Unit Nine and Unit Ten</i> <i>Grammar; Vocabulary; Skills Work and Everyday English.</i>
<b>10</b>		Continued <i>Unit Nine and Unit Ten</i>
<b>11</b>		/ <i> Unit Eleven and Unit Twelve</i> <i>Grammar; Vocabulary; Skills Work and Everyday English.</i>
<b>12</b>		Continued <i>Unit Eleven and Unit Twelve</i>
<b>13</b>		<i>Unit Thirteen and Unit Fourteen</i> <i>Grammar; Vocabulary; Skills Work and Everyday English.</i>
<b>14</b>		Continued <i>Unit Thirteen and Unit Fourteen</i>
<b>15</b>		<i>Examination</i>

**Module 33**

Code	Course/Module Title	ECTS	Semester
UOBAB0106071	Architectural Design IV	12	7
Class (hr/w)	Theory Lab Practical	SSWL (hr/sem)	USWL (hr/w)
	12	180	120
Description			
<p>The aims of the architectural design curriculum for this semester are:  to expand the perceptions of the architectural student and his transition from thinking about designing a single building with a specific function into the general framework of the city  linking individual project with the urban fabric by identifying the principles of urban design and linking to the fabric of the city and the extension of visual and kinetic axes, the impact of the urban fabric on design and to focus on dealing with engineering service systems and the adaptation of open and closed spaces that leads to environmental integration. Taking into account the requirements of future expansion and design decisions.  Student awareness of urban planning scale  Student ability to design multi- functions urban space according to environmental variables and aesthetic principles  Student ability to deal with functional urban complex design  Student awareness of social and economic aspects of design  Student ability to design according quality of life standards</p>			

<b>1. Course Name:</b>
Architectural Design
<b>2. Course Code:</b>
UOBAB0106071
<b>3. Semester / Year:</b>
Seventh and Eighth Semester / Forth year
<b>4. Description Preparation Date:</b>
24 / 3/ 2024
<b>5. Available Attendance Forms:</b>
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>
<b>7. Course administrator's name (mention all, if more than one name)</b>
Name D.Resha Malik , D. Ula ABD Ali , MS.C.Alaa Hadi , MSC. Sara mhemmad jammeel :Email: <a href="mailto:eng.resha.malik@uobabylon.edu.iq">eng.resha.malik@uobabylon.edu.iq</a> <a href="mailto:eng.alaa.hadi@uobabylon.edu.iq">eng.alaa.hadi@uobabylon.edu.iq</a> <a href="mailto:eng.ula.abdali@uobabylon.edu.iq">eng.ula.abdali@uobabylon.edu.iq</a>

8. Course Objectives					
Course Objectives		<ol style="list-style-type: none"> <li>1. to expand the perceptions of the architectural student and his transition from thinking about designing a single building with a specific function into the general framework of the city</li> <li>2. linking individual project with the urban fabric by identifying the principles of urban design and linking to the fabric of the city and the extension of visual and kinetic axes, the impact of the urban fabric on design</li> <li>3. to focus on dealing with engineering service systems and the adaptation of open and closed spaces that leads to environmental integration</li> </ol> <p>Taking into account the requirements of future expansion and design decisions•</p>			
9. Teaching and Learning Strategies					
Strategy					
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	11 hours/ 2days	design project 1: A multi- function urban space			طرائق التعليم والتعلم Day sketchin
2		WEEK1 Choose a specific start point as network to guide design concept and articulate this network to fit location & function.			اختبار يومي Introduces الاولي Introduc es الثانوي
3		WEEK2 Full analysis of an example related to the project.			Pr final تقديم ما قبل الاخير
4		and primary presentation (first & second)	13		Final التقديم النهائي

5		<b>WEEK3 Development of the concept</b>			
6		<b>WEEK4 Detail site plan</b>			
7		<b>Design project(2) urban functional complex</b>			
8		<b>WEEK7 Introducing Lecture</b>			
9		<b>WEEK8 Studies</b>			
10		<b>WEEK9 Studies Submission</b>			
11		<b>WEEK10 Concept, Master Plan</b>			
12		<b>WEEK11 Day Sketch</b>			
13		<b>WEEK12 Detailed Plans, Elevations, and Sections</b>	Project has Malty functions and malty purpose		
14		<b>WEEK13 Details and Land Scape</b>			
15		<b>WEEK14 Pre- Final</b>			
16					
		<b>Half year brea;</b>			
17		<b>studies</b>			
18		<b>studies</b>			
19		<b>Site plan</b>			
20		<b>Site plan groups</b>			
21		<b>Detailed site plan individual</b>			
22		<b>First submission</b>	<b>14</b>		

23		<b>second submission</b>			
24		<b>Pre final</b>			
25		<b>Final individual design stage</b>			
26		<b>Group design stage</b>			
27		<b>Group design stage</b>			
28		<b>Second submission</b>			
29		<b>Third submission</b>			
30		<b>details</b>			
31		<b>Pre final groups</b>			
32		<b>Final and model groups</b>			

#### Module 34

<b>Code</b>	<b>Course/Module Title</b>	<b>ECTS</b>	<b>Semester</b>
UOBAB0106085	Landscape Design		
<b>Class (hr/w)</b>	<b>Lect/Lab./Prac./Tutor</b>	<b>SSWL (hr/sem)</b>	<b>USWL (hr/w)</b>
<b>Description</b>			
<p>Introducing the basic principles in the design of outdoor spaces or what can be called the garden landscape and integration with the building and with the general urban landscape. The foundations and principles are exposed to the necessary sites and projection of the building within it. And address the problems of the site and invest its characteristics and components to serve the integrated scene, and exposure to the requirements of natural and structural treatment complementary to the garden landscape. The topic includes a study of the development of gardens throughout history with a focus on the temporal and spatial aspects related to the thought of designing and directing gardens. The subject has two theoretical and practical aspects. The student in the practical side prepares detailed designs for one of the external spaces produced and from the other requirements the student submits a report on one of the relevant topics specified by the professor of the subject in advance, and the distinguished projects are elected for the purpose of presenting them to students in the form of a lecture or discussion with student participation.</p>			

<b>1. Course Name:</b>	
Landscape Design	
<b>2. Course Code:</b>	
UOBAB0106085	
<b>3. Semester / Year:</b>	
second semester 2023-2024	
<b>4. Description Preparation Date:</b>	
3/4/2024	
<b>5. Available Attendance Forms:</b>	
The semester system consists of 15 weeks, with students attending one day per week on a full-time basis, for a total of four hours per day.	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
The number of hours (60 hours) / the number of units (6 units)	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
1- Rawaa Abd-almunaaf Hakeem    2- Sarah Mohammed Jameel	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>• Understanding the principles of environmental design by teaching students the principles of designing outdoor spaces in a way that balances aesthetic, functional, and environmental sustainability aspects.</li> <li>• Understanding the relationship between humans and the environment by raising awareness among students about the importance of the relationship between humans and the surrounding environment and the impact of this relationship on human health and well-being.</li> <li>• Applying theoretical knowledge by providing opportunities for students to apply the concepts and principles they have learned in their studies to real-world situations through practical design projects.</li> <li>• Encouraging collaboration and communication between students and the local community and relevant stakeholders to apply their designs in a way that responds to the needs of the community.</li> </ul>
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	1- Lectures 2. Interactive lessons (presentations containing images and video clips)

3. Assignments and reports (electronic activities and tasks)
4. Tests and examinations.
5. Questions and discussions within the lecture hall.
6. Designing architectural projects for selected spaces within the city.

## 10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1 <sup>st</sup> week	4	The student becomes acquainted with the nature of the subject of outdoor spaces, its pillars, sources, required activities and tasks, and how to build and deal with the design idea.	Landscape architecture and related concepts.	<ul style="list-style-type: none"> <li>• Lectures</li> <li>• Interactive lessons (using integrated learning)</li> <li>• Assignments and reports</li> <li>• Tests (in-person and electronic) and exams</li> </ul>	<ul style="list-style-type: none"> <li>• Weekly tests (in-person)</li> <li>• Final exam</li> <li>• Reports and homework assignments (electronic)</li> </ul>
2 <sup>nd</sup> week	4	The student should be familiar with the outdoor space, the science of outdoor space, outdoor space architecture, the historical roots of the concept, and the stages of its evolution throughout different historical epochs.	<p>Theoretical: The fundamental concepts of outdoor spaces.</p> <p>Practical: First project: Design project for a rooftop garden for one of the buildings within the Al-Ayadi residential complex in Baghdad city.</p>	<ul style="list-style-type: none"> <li>• Questions and discussions within the classroom</li> <li>• The relationship between theory and practice</li> <li>• Reports and presentations</li> </ul>	
3 <sup>rd</sup> week	4	The student should list the elements of landscape design (color, line, texture, scale, shape).	<p>Theoretical: Elements of landscape design.</p> <p>Practical: First project: Study Phase: Presenting the initial idea for the design project.</p>		
4 <sup>th</sup> week	4	The student should enumerate the types of plant groups used in outdoor space design and explain the importance of using plants in outdoor spaces.	<p>Theoretical: Botanical elements in outdoor space design</p> <p>Practical: First project: First preliminary presentation.</p>		
	4	The student should list and explain the types of	<b>17</b>		



5 <sup>th</sup> week		outdoor spaces in terms of their size and location within the city.	Theoretical: Types of landscape spaces within cities. Practical: First project: Presenting the pre-final version of the first design project.		
6 <sup>th</sup> week	4	The student should become familiar with river spaces, their design criteria, and their significance to urban areas. They should also explain the key design strategies for these spaces.	Theoretical: Structural elements in outdoor spaces. Practical: First project: Final presentation of the first design project.		
7 <sup>th</sup> week	4	The student should become acquainted with the concept of river spaces and their significance for the city. They should enumerate and explain the key strategies associated with these spaces.	Theoretical: Strategies for developing river spaces. Practical: Second project: Urban renewal of the external river space for a portion of the riverfront of Shatt al-Hilla within a selected part of the city.		
	4	Mid exam	Mid exam		
	4	The student should enumerate the general design principles for outdoor spaces and how to apply them to various global projects.	Mid exam		
8 <sup>th</sup> week			Theoretical: Principles and standards for designing outdoor spaces. Practical: Second project: Initial presentation - first preliminary.		
9 <sup>th</sup> week	4	The student should observe how to apply the theoretical concepts studied within a local real-life project.			
10 <sup>th</sup> week	4	The student should learn the foundational principles and design standards to be followed when designing furniture for urban spaces and how to apply them within the space by reviewing	Academic trip (field visit to the Tigris River Corniche within the Al-Mutanabbi and Al-Qushla area in Baghdad city).  Theoretical:		

11 <sup>th</sup> week	4	<p>several global projects within cities.</p> <p>The student should enumerate the types of urban interventions implemented in global cities at the level of outdoor spaces, their significance, and the challenges facing their implementation.</p>	<p>public spaces furniture. Practical: Second project: Pre-final presentation for the second design project.</p>		
12 <sup>th</sup> week	4	<p>The student should understand the concept of tactical urbanism and the design strategies applied in designing outdoor spaces within this concept.</p>	<p><b>Theoretical:</b> Types of urban interventions within public spaces. <b>Practical: Second project:</b> Final presentation of the second design project.</p>		
13 <sup>th</sup> week	4	<p>The student should learn how to practically apply completed projects on the ground where various types of urban interventions have been implemented in diverse cities.</p>	<p><b>Theoretical:</b> Types of urban interventions (tactical urbanism)</p>		
14 <sup>th</sup> week	4	<p>The student should feel responsible towards their region or city by being assigned a specific area where they apply design concepts related to urban interventions for tactical urbanism.</p>	<p>Individual reports presented by students about practical projects where various types of urban interventions have been implemented in cities within the concept of tactical intervention.</p>		
15 <sup>th</sup> week			<p>Submitting final reports on proposals for one of the selected areas by students for the implementation of one type of urban intervention within the concept of tactical intervention.</p>		

**Module 35**

<b>Code</b>	<b>Course/Module Title</b>	<b>ECTS</b>	<b>Semester</b>
UOBAB0106081	Housing	5	8
<b>Class (hr/w)</b>	<b>Lect/Lab./Prac./Tutor</b>	<b>SSWL (hr/sem)</b>	<b>USWL (hr/w)</b>
2	2	63	62
<b>Description</b>			
<p>The course is designed to be an integrated and supported part with the design studio and a course with a more analytical input. Therefore, this course should be taken in combination with En Ar Ad VI 4 039 08 Architecture Design. Some elements may be taught in a cooperation with other relevant courses.</p> <p>The housing course introduces the student to the principles of housing in general and its different types. Such as single-family housing and multi-family housing, and the planning and design variables affecting each of them .And the principles of housing density by understanding the concepts of Spatial, privacy, and the concept of general boundaries of the residential community the one</p>			

**TEMPLATE FOR COURSE SPECIFICATION**

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

**COURSE SPECIFICATION**

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

<b><u>1. Teaching Institution</u></b>	College of Engineering University of Babylon
<b><u>2. University Department/Centre</u></b>	Architectural Engineering Departement (AED)
<b><u>3. Course title/code &amp; Description</u></b>	<b>Housing</b>
<b><u>4. Programme(s) to which it Contributes</u></b>	Architectural Engineering (ARC)
<b><u>5. Modes of Attendance offered</u></b>	Semester System ; There is only one mode of delivery, which is a “Day Program”. The students are full time students, and on campus. They attend full day program in face-to-face mode. The academic year is composed of 15-week regular subjects.
<b><u>6. Semester/Year</u></b>	2 <sup>nd</sup> semester / Academic Year 2023-2024
<b><u>7. Number of hours tuition (total)</u></b>	60hrs. / 2 hrs. per week
<b><u>8. Date of production/revision of this specification</u></b>	Oct – 10 / 2023
<b><u>9. Aims of the Cours</u></b>	The subject of housing, in its second academic term, is considered complementary to the subject of housing planning in the first academic term. The student is identified with the principles of housing in general and its different types like single family housing and multi-family housing and the influential planning and designing variables in each one of them. Similarly, the student identifies the basics of high density housing design through the concepts of territoriality, privacy and the general and particular concept concerning the boarders of the single residential complex. The student also identifies some housing standards and limitations that are related to the final design decisions of the residential building like the limitations of vertical circulation and immediate evacuation and the limitations of fire and some of the specialties of living in dry hot areas. <u>e</u>

### **10. Learning Outcomes**

At the end of the class, the student will be able to:

- \_distinguish between planning and designing concept in housing.
- \_distinguish between standard, indicator, specification and code.
- \_increase knowledge in economical and social aspects of housing.
- \_develope his theoretical background that help him to treat with housing projects.

### **11. Teaching and Learning Methods**

- \_ Lectures
- \_ Homework and Assignments.
- \_ Tests and Exams.
- \_ In-Class Questions and Discussions.
- \_ Seminars.

### **12. Assessment Methods** **Examinations, Tests, and Quizzes.**

#### **Student Engagement during Lectures**

### **13. Grading Policy**

1. Quizzes: - There will be a ( 2 –4) closed books and notes quizzes during the semester. The quizzes will count 5% of the total course grade.
2. Tests, 1-2Nos. and will count 25% of the total course grade.
3. The final exam will count 70% of the total course grade

## 14. Course Structure

Week	Hours		Unit/Module or Topic Title	Teaching Method	Assessment Method
1	2		Defining the living place, housing, the concept of single family and multi-families housing	lecturer	
2	2		Defining the house and the abstract concept of house	lecturer	
3	2		The development of horizontal and vertical housing and with models of the local environment horizontal/vertical	lecturer	
4	2		The vertical and horizontal residential (formal) patterns	Lecturer & Test	Quizze
5	2		Population density – definitions, connections, effects	lecturer	
6	2		The family in housing planning	lecturer	
7	2		The territoriality concepts in residence	lecturer	
8	2		Exam		Exam
9	2		Privacy and the concept of protected space (the special and general in single family and multi-families housing)	lecturer	
10	2		The philosophical concept of the house (directions, connections, extensions and their relation with the urban space in the house)	lecturer	
11	2		Place in the house, the entrance, borders and their relation with privacy and the protected space and the special and general progression, identity and character	lecturer	
12	2		The residential districts, their graduation and divisions	Lecturer & Test	Quizze
13	2		The housing standard and some high density housing limitations in the concepts of the	Lecturer	

			vertical circulation and emergency evacuation and fire limitations and some housing specialties <b>Lecturer &amp; in dry hot</b>		
14	2		The housing standard and some high density housing limitations in the concepts of the vertical circulation and emergency evacuation and fire limitations and some housing specialties in dry hot	Lecturer	
15	2		Seminar		

### **15. Infrastructure**

Required reading:  
 · CORE TEXTS  
 · COURSE MATERIALS  
 · OTHER

#### References:

- \_Morris (Society , Family and Housing )
- \_ Polservice (Housing Standards and Codes of Practice )

Special requirements (include for example workshops, periodicals, IT software, websites)

Community-based facilities (include for example, guest Lectures , internship , field studies)

### **16. Admissions**

Pre-requisites

Minimum number of students

/

Maximum number of students

70

### **17. Course Instructors**

Ula Abd Ali Khaleel Al-Mammori  
 Arch. Engr. Dept.  
 College of Engineering  
 University of Babylon  
 Email: [eng.ola.abid@uobabylon.edu.iq](mailto:eng.ola.abid@uobabylon.edu.iq)

**Module 36**

Code	Course/Module Title	ECTS	Semester
UOBAB0106084	Islamic Architecture	2	7
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
4	1	33	17
Description			
<p>Islamic architecture is a realistic heritage case that enriched the contemporary architect with many spiritual meanings that are almost missing in modernity and beyond. From here, he learns from this course how to mix the heritage of the past with the techniques of the modern era to produce something new that matches the existing one, drawing inspiration from the Islamic thought and belief as pillars, features and symbols that other civilizations lack.</p>			

<b>1. Course Name:</b>	
Islamic Architecture	
<b>2. Course Code:</b>	
UOBAB0106084	
<b>3. Semester / Year:</b>	
second semester 2023-2024	
<b>4. Description Preparation Date:</b>	
1/4/2024	
<b>5. Available Attendance Forms:</b>	
The semester system consists of 15 weeks, with students attending one day per week on a full-time basis, for a total of two hours per day.	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Sarah Mohammed Jameel	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<input type="checkbox"/> Introducing the student to an important and vital topic, namely the concept of civilization and the city in Islamic thought, clarifying its main characteristics and general features, studying its most important functional types such as the market, traditional Arab housing, the mosque, the shrine, etc., defining its main
<b>25</b>	



features and their connection to the natural and cultural environment, and the role of humans within it, culminating in Islamic art and the influence of religion on it.

### 9. Teaching and Learning Strategies

**Strategy**

- Lectures
- Interactive lessons (presentations containing images and video clips)
- Assignments and reports (electronic activities and tasks)
- Tests and exams
- Questions and discussions within the lecture hall
- The relationship between theory and practice (presentation of various relevant architectural examples).

### 10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1 <sup>st</sup> week	2	For the student to be able to define the concept of Islamic architecture from the perspective of Orientalist thought and to list the main planning patterns of Islamic cities.	Islamic civilization and horizontal and vertical cultural communication and sources of Islamic art and architecture.	<ul style="list-style-type: none"> <li>• Lectures</li> <li>• Interactive lessons (using integrated learning)</li> <li>• Assignments and reports</li> <li>• Tests (in-person and electronic) and exams</li> <li>• Questions and discussions within the classroom</li> <li>• The relationship between theory and practice</li> <li>• Reports and presentations.</li> </ul>	<ul style="list-style-type: none"> <li>• Weekly tests (in-person)</li> <li>• Final exam</li> <li>• Reports and homework assignments (electronic)</li> </ul>
2 <sup>nd</sup> week	2	For the student to list the factors that contributed to the crystallization of forms in Islamic Arab architecture.	The concept of form, its origin, sources, and the impact of cultural and natural environment on shaping Islamic Arab architecture.		
3 <sup>rd</sup> week	2	For the student to enumerate and compare between the configurational and spatial patterns related to the relationship of mass with space in Islamic architecture.	Spatial and configurational patterns in Islamic Arab architecture.		
4 <sup>th</sup> week	2	For the student to list the prominent features of Islamic architecture and to compare between the formal and conceptual features of Islamic architectural output.	The distinctive features of Islamic Arab architecture.		

5 <sup>th</sup> week	2	<p>For the student to understand the characteristics of urban design and to compare climatic treatments at the level of individual housing units and at the level of the city.</p> <hr/> <p>Top of Form</p>	Inward looking / the dialectic of form and function.		
6 <sup>th</sup> week	2	<p>Site visit and observation of Islamic architectural products on the ground, documenting them with photos, and writing a brief report about them.</p>	Educational trip (including a visit to the most prominent historical buildings in one of the Iraqi cities).		
7 <sup>th</sup> week	2	<p>For the student to understand the fundamental design components of mosques through various examples.</p>	Religious architecture (Mosque) in Islam. Components and basic elements of the mosque.		
8 <sup>th</sup> week	2	<p>For the student to list the prominent architectural styles specific to mosques and to compare between them. And to list the main design elements associated with mosques (minarets, domes, Islamic ornaments).</p>	Mosque styles in Islamic architecture.		
9 <sup>th</sup> week	2	<p>For the student to know the prominent design characteristics of palaces in Islamic architecture, and to compare between the Emir's residence (Dar al-Amara) and the palace from several design aspects.</p>	Worldly architecture (palaces and emirate residences).		
	2	<p>For the student to understand the design characteristics of Islamic schools and to</p>			

10 <sup>th</sup> week	2	compare between school styles according to geographical environment.  Mid exam	Schools in Islamic Arab architecture.		
11 <sup>th</sup> week	2	For the student to understand the distinctive design characteristics of traditional dwellings in Islamic cities and the prominent design and aesthetic treatments specific to each community.	Mid exam		
12 <sup>th</sup> week	2	For the student to understand the mausoleum or shrine and to illustrate its religious, economic, and social importance, and to list the formal characteristics of Islamic mausoleums.	Traditional dwelling houses		
13 <sup>th</sup> week	2	For the student to understand the meaning and function of the Khan, and to list the design and architectural patterns of traditional markets in the Islamic city.	Tombs and mausoleums in Islamic architecture.		
14 <sup>th</sup> week	2	For the student to enumerate the importance of walls, castles, and fortresses through examples of Islamic cities that utilized these elements in their design.	khans and traditional markets in Islamic architecture.		
15 <sup>th</sup> week			Walls, castles, and fortresses in the planning of Islamic cities.		

### Module 37

Code	Course/Module Title	ECTS	Semester
UOBAB0106082 UOBAB0106073	Theory of Architecture I & II		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			
<p><b>It represents an important issue in the development of architecture. It provides a detailed analysis of major architecture theories and trends and their evolution over time. It presents the main philosophical thinking behind each theory and the main principles on which it relies to create the method. Moreover, it shows the roots of each theory and its relationship to other aspects of life. It describes in detail the influence of society on the development or decline of architecture.</b></p>			

## TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

### COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

<u>1. Teaching Institution</u>	College of Engineering University of Babylon
<u>2. University Department/Centre</u>	Architectural Engineering Department (AED)
<u>3. Course title/code &amp; Description</u>	<b>Theories of Architecture</b> The subject aims to discuss and study the development of architecture in its two parts, the theoretical and practical, after the industrial revolution and the French revolution on the bases of the influences like engineering, planning, scientific and technological development of construction and raw materials, the development of economics, the huge changes in the social hierarchy, the great developments of plastic and applied arts in addition to the great development of the influence of the theoretical construction as a background for the architectural producer
<u>4. Programme(s) to which it Contributes</u>	Architectural Engineering (ARC) `
<u>5. Modes of Attendance offered</u>	Annual System; There is only one mode on delivery, which is a “Day Program”. The students are full time students, and on Campus. They attend full day program in face-to-face mode. The academic year is composed of 30-week regular subjects. .Each subject credit is one 90-120 minute lecture a week.
<u>6. Semester/Year</u>	<b>2023-2024</b>
<u>7. Number of hours tuition (total)</u>	(2) hours per. Week , (60) hours total
<u>8. Date of production/revision of this specification</u>	Oct. 10 /2023
<u>9. Aims of the Course</u>	
<ul style="list-style-type: none"> <li>• Teach the main western architectural movements in the late 19th and 20th century till the folding movement.</li> <li>• Analyze the thesis of great architects pioneers like le Corbusier and Robert Ventury for example</li> <li>• Study the main landmark architectural buildings that resemble the thoughts of the movements related to.</li> <li>•</li> </ul>	

## 10. Learning Outcomes

After the end of the year the student will be able to:

- Have a good knowledge of the main architectural movements and theories in the 19th and 20th century.
- The ability to analyze projects and concepts of different buildings
- Have the knowledge to understand the impact of architectural movements on other fields and the growth of societies

## 11. Teaching and Learning Methods

1. Lectures.
2. Tutorials.
3. Homework and Assignments.
4. Tests and Exams.
5. In-Class Questions and Discussions.
6. Reports, Presentations

## 12. Assessment Methods

1. Examinations, Tests, and Quizzes.
2. Student Engagement during Lectures.
3. Responses Obtained from Students

## 13. Grading Policy

1) Course Grades total of (30%):

Paper test exams 1 (12%)

Paper test exams 2 (12%)

Reports & quizzes (6%)

2) Final Course Grade total of (70%)

**All above becomes a total grade of (100%)**

#### 14. Course Structure

Week	COURSE	HOURS	Topic		
1	1	2	introduction		
2	1	2	19 <sup>th</sup> century movements 1		
3	1	2	19 <sup>th</sup> century movements 2		
4	1	2	19 <sup>th</sup> century movements 3		
5	1	2	19 <sup>th</sup> century movements 4		
6	1	2	quiz test		
7	1	2	20 <sup>th</sup> century introduction		
8	1	2	The modern movement 1		
9	1	2	The modern movement 2		
10	1	2	The modern movement 3		
11	1	2	The late modern movement		
12	1	2	Course exam 1		
13	1	2	discus reports 1		
14	1	2	discus reports 2		
15	1	2	Review course		
16	2	2	introduction		
17	2	2	late 20 <sup>th</sup> century introduction		
18	2	2	Postmodern movement 1		
19	2	2	Postmodern movement 1		
20	2	2	Postmodern movement 1		
21	2	2	Postmodern movement trends 2		
22	2	2	Postmodern movement trends 1		
23	2	2	Course exam 2		
24	2	2	discus reports 1		
25	2	2	discus reports 2		
26	2	2	Deconstruction movement 1		
27	2	2	Deconstruction movement 2		
28	2	2	Folding Movement		
29	2	2	final reports delivery		
30	2	2	Review course		

#### 15. Infrastructure

Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	
Special requirements (include for example workshops, periodicals, IT software, websites)	
Community-based facilities (include for example, guest Lectures , internship , field studies)	-----
<b><u>16. Admissions</u></b>	
Pre-requisites	
Minimum number of students	40
Maximum number of students	80 students
<b><u>17. Course Instructors</u></b>	<b><i>Instructor:</i></b> <b>Assist Professor.</b> Ali Umran Latif Al-Thahab Arch. Engr. Dept. College of Engineering University of Babylon Email: eng.ali.aumran@uobabylon.edu.iq

### Module 38

Code	Course/Module Title	ECTS	Semester
UOBAB0106086	Acoustics of Architecture	2	8
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2	50	62
Description			
<p>The course is to identify the principles of acoustic behavior in a closed space and the nature of the acoustic phenomenon in it through the concepts of acoustic reflection, absorption, propagation and penetration, as well as the concepts of auditory response to it. The most important acoustic principles and standards adopted in evaluating verbal and musical auditory spaces, the most important acoustic defects and their treatment, and methods of designing acoustic halls are discussed. Studying noise and its types, and focusing on methods of reducing it in public and residential buildings.</p>			



**Module 39**

Code	Course/Module Title	ECTS	Semester
UOBAB0106071 UOBAB0106071	Architectural Design V		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			
<p>1- Developing the skill :- how to deal with the urban development concept, urban strategies, and applications?</p> <p>2- Developing the skills of the student in the processes (documentation and inventory) of heritage in downtowns and center area in Iraqi cities through plans that show the reality of the situation, land uses, structural status, heritage status, diagnosis of preservation buildings and their assemblies, and sorting distinguished architectural vocabulary.</p> <p>3- developing the student's ability to derive developmental conservation &amp; development proposals. based on the laws and legislations of municipalities and urban planning</p> <p>teaching the student to cooperate and teamwork within the design preparation process</p>			

**TEMPLATE FOR COURSE SPECIFICATION**

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

**COURSE SPECIFICATION**

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

<b><u>1. Teaching Institution</u></b>	College of Engineering University of Babylon
<b><u>2. University Department/Centre</u></b>	Architectural Engineering Department (ARC)
<b><u>3. Course title/code &amp; Description</u></b>	<b>Architectural Designs</b> This subject is considered the student's final stage in the design practice. It concentrates on the concept of urban development through the direct field documentation of traditional areas or central areas in the Iraqi cities. By doing so, developmental alternatives are set forth as a basic in the concepts of conservation, development and building material and through an organizing method which is dependent on the rules and legislations of Babylon municipality and the municipalities of the governorates.
<b><u>4. Programme(s) to which it Contributes</u></b>	Architectural Engineering ( ARC )
<b><u>5. Modes of Attendance offered</u></b>	<b>The program:</b> Design projects, detail drawings and models.
<b><u>6. Semester/Year</u></b>	1 <sup>st</sup> semester /Academic Year 2023-2024
<b><u>7. Number of hours tuition (total)</u></b>	180 hrs. / 12 hrs. per week
<b><u>8. Date of production/revision of this specification</u></b>	Oct. – 10 / 2023
<b><u>9. Aims of the Course</u></b>	
<p><b>The aim</b></p> <ul style="list-style-type: none"> <li>• The aim is to prepare the student to enter the world of architecture intellectually, conceptually and practically as a basic working rule.</li> <li>• Moreover, the subject aims at identifying the student with the concept of architecture by identifying the basic principles of design, composition, three dimensions, the human scale, the surroundings of the urban environment, etc., and developing the student's expressive language of those items.</li> <li>• The subject, also, concentrates on developing the student's artistic and creative sense, the style of analytic and synthetic thinking, in addition to developing his awareness and sensation of the natural and built environment and to respect this environment starting from realizing and appreciating the classical urban environment and studying the presentational, plastic and compositional relationships of its elements and components.</li> </ul>	

**10. Learning Outcomes**

At the end of the class, the student will be able to:

- g. Analyze and archive buildings of most important area in city center.
- h. Be aware of many kinds urban design problems and many types of buildings.
- i. Relation between architectural and urban design.
- j. Learn how to produce complete huge projects.
- k. Learn more about urban details.

### *11. Teaching and Learning Methods*

- h. Lectures.
- i. Tutorials.
- j. In-Class Questions and Discussions.
- k. Connection between Theory and Application.
- l. Working drawing projects.
- m. In- and Out-Class oral conservations.
- n. Site visits and documentation.
- o. Models.

### *12. Assessment Methods*

- e. Examinations, Tests, and day sketches.
- f. Student Engagement during Lectures.
- g. Responses Obtained from Students, Questionnaire about.
- h. Curriculum and Faculty Member (Instructor).

Working drawing projects

### *13. Grading Policy*

#### **Quizzes:**

- e. There will be (30 degrees of 100) for day sketches during the academic year, the day sketches will count 30% of the total course grade.
- f. Main urban design project, and will count 70% of the total course grade.

## 14. Course Structure

Week					
1	The field study of the real condition through the field measurements and photographing and freehand drawing and reviewing the valid rules and limitations.				
2					
3	Presenting the preliminary planning and developing concepts through the field study and limitations of the site.				
4					
5	Presenting a suggested basic plan of the developmental alternative that supports the well established intellectual base.				
6					
7	The final presentation of the suggested alternative (a 3d model with a suitable measure and basic plans of all the project which clarify the general application and the distribution of the adopted functions)				
8					
9					
10	Presenting architectural details and important parts in the site which are divided on the student individually.				
11					
12					
13					
14	Day sketches during the semester				
15					

## 15. Infrastructure

Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	<b>Textbook &amp; References:</b> Any book or magazine related to urban design.
Special requirements (include for example workshops, periodicals, IT software, websites)	<ul style="list-style-type: none"> <li>• Available websites related to the subject.</li> <li>• Extracurricular activities.</li> </ul>
Community-based facilities (include for example, guest Lectures , internship , field studies)	<ul style="list-style-type: none"> <li>• Scientific Videos.</li> <li>• Site visits</li> </ul>

## 16. Admissions

Pre-requisites	<b>Architectural Designs</b>
Minimum number of students	
Maximum number of students	

## 17. Course Instructors

**Instructor:**  
**Lecturer:**  
**Ameera Jaleel Ahmed Al-Esawy**  
 Arch. Engr. Dept.  
 College of Engineering  
 University of Babylon

	<p>Email:  <a href="mailto:eng.ameera.jaleel@uobabylon.edu.iq">eng.ameera.jaleel@uobabylon.edu.iq</a>  Name: Mahmood Amer Chabuk  e-mail: eng.mahmood.aa@uobabylon.edu.iq</p> <p><b>Mijed Abbas Abd Al-Najar</b>  Arch. Engr. Dept.  College of Engineering  University of Babylon</p> <p><b>Seraj Jabbar Kadhum Al-Murshedy</b>  Arch. Engr. Dept.  College of Engineering  University of Babylon  Email:  eng.seraj.jabar@uobabylon.edu.iq</p>
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#### Module 40

Code	Course/Module Title	ECTS	Semester
UOBAB0106076 UOBAB0106094	Contemporary Arab and Iraqi architecture	4	9
Class (hr/w)	Lecture	SSWL (hr/sem)	USWL (hr/w)
	4	63	37
Description			
<p>The semester represents an important stage of architectural knowledge. The subject gives the student a wide scope of the trends and characteristic of famous Iraqi and Arabic architects.</p> <p>The analysis of history and development of contemporary architecture represent an important stage of architectural knowledge. This subject gives the student a wide scope of the trends and characteristic of famous Arabic designers, and within this scope, lectures will illustrate the development of Iraqi architecture. The architectural trends will be demonstrating and analyzed according to a historical-a3.</p> <p>The local architectural development will be demonstrating and analyzed according to a historical-aesthetic classification. The main goal is to asset a strong base for architectural student to maintain the design process esthetic classification.</p> <p>The main goal is to asset a strong base for the architectural student to maintain the design process.</p>			

**Module 41**

Code	Course/Module Title	ECTS	Semester
UOBAB0106086	Acoustics of Architecture	2	8
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2	50	62
Description			
<p>The course is to identify the principles of acoustic behavior in a closed space and the nature of the acoustic phenomenon in it through the concepts of acoustic reflection, absorption, propagation and penetration, as well as the concepts of auditory response to it. The most important acoustic principles and standards adopted in evaluating verbal and musical auditory spaces, the most important acoustic defects and their treatment, and methods of designing acoustic halls are discussed. Studying noise and its types, and focusing on methods of reducing it in public and residential buildings.</p>			

**Contact**

Program Manager:

Nada A. Kareem | Lec. Asst. | Lecturer

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**Module 42**

Code	Course/Module Title	ECTS	Semester
UOBAB0106092	Philosophy of Architecture		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			
<p>Architecture &amp; philosophy regards as support topic . it describes as a material concerning with the issues of philosophy and their relation with architecture . its content extend from introduction of philosophy, the ancient philosophy of creek , Islamic philosophy ,modern &amp; contemporary philosophy . in its term students will study the relation between philosophy and aesthetics . the relation between philosophy , conceptions , values and architectural topic.</p>			

Name: prof. Hamzah Al-Mamoori

E-mail: eng.hamzah.salamn@uobabylon.edu.iq

**Module 43**

Code	Course/Module Title	ECTS	Semester
UOBAB0106102	Estimation and Specification	3	nine
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1	48	27
Description			
<p>The course aims to introduce the student to the executive matters related to the work of the architect as a coordinator of all specializations involved in the implementation work in general, and as a product of the design works in the initial ideas presented and their economic budget, and then preparing the detailed designs. Then the student gets acquainted with the types of construction contracting, the methods and foundations adopted in estimates and calculations of estimated construction costs, the principles of preparing and organizing bills of quantities, general and special specifications, and details of contracting conditions.</p>			

**Module 44**

Code	Course/Module Title	ECTS	Semester
UOBAB0106103	Thesis		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			
<p>1. Teaching the architectural student about origins of the design work, belonging to the place and its connection with the values and deep roots of his country, nation, society, traditions and culture.</p> <p>تعليم الطالب المعماري أصول العمل التصميمي والانتماء للمكان وارتباطه بالقيم والجذور العميقة لبلاده وأمته ومجتمعه وتقاليد وثقافته</p> <p>2. Developing the student's ability and skill in expressing and translating the values through his design project.</p> <p>تطوير قدرة الطالب ومهارته في التعبير عن القيم وترجمتها من خلال مشروع التصميم الخاص به</p> <p>3. Develop the student's ability and skill to sense reality problems by derive real projects either proposed by State departments or teachers to solve a specific problem, such as an environmentally or topographically, such as housing and industrial projects, or an outstanding conservation project...ect</p> <p>تطوير قدرة الطالب ومهارته على الشعور بمشاكل الواقع من خلال اشتقاق مشاريع حقيقية إما مقترحة من قبل دوائر الدولة المخترعة.....إلخ أو المعلمين لحل مشكلة معينة. مثل بيئة أو طوبوغرافية ، مثل الإسكان والمشاريع الصناعية ، أو مشروع الحفاظ على المعلقة</p> <p>4. Develop the student's ability and skill by defining a clear approved curriculum based on documentation, data collection and scientific analysis</p> <p>تطوير قدرة الطالب ومهارته من خلال تحديد منهج واضح د يعتمد على التوثيق وجمع البيانات والتحليل العلمي.</p>			

## TEMPLATE FOR COURSE SPECIFICATION

### HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

### COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

<u><b>1. Teaching Institution</b></u>	College of Engineering University of Babylon
<u><b>2. University Department/Centre</b></u>	Architectural Engineering Department (ARC)
<u><b>3. Course title/code &amp; Description</b></u>	Thesis
<u><b>4. Programme(s) to which it Contributes</b></u>	Architectural Engineering ( ARC )
<u><b>5. Modes of Attendance offered</b></u>	<b>The program:</b> Design thesis projects, detail drawings and models.
<u><b>6. Semester/Year</b></u>	1 <sup>st</sup> & 2 <sup>nd</sup> semester /Academic Year 2023-2024
<u><b>7. Number of hours tuition (total)</b></u>	120 hrs. / 8 hrs. per week for 1 <sup>st</sup> semester & 270 hrs. / 18 hrs. per week for 2 <sup>nd</sup> semester
<u><b>8. Date of production/revision of this specification</b></u>	Oct. –10 / 2023
<u><b>9. Aims of the Course</b></u>	
<b>The aim</b>	<ul style="list-style-type: none"> <li>The final project is considered the final stage of the knowledge, which has been given to the student during his years of study, represented by intellectual maturity, the basics of the design work and its belonging to the place and its relation to the values and deep roots of his country, nation, society, tradition and culture and letting the student to express these values through his intellectual and design presentations of the selected</li> </ul>



project which we emphasize to be one of the real projects proposed by different state offices and which have clear dependable curriculum, or proposed by professors in order to solve a particular problem, or a topographically or environmentally distinguished project of designing requirements that bear a highly leveled capital feature, or a project specified to solve a problem or crisis that is raised in the architectural field like projects of housing or industrial projects or a distinguished conservative project in the case of big projects in which it is allowed to be carried out by more than one student.

- The work on the final project starts from the end of the fourth year. The summer holiday is specified for studying.
- The work of the final project starts by collecting information in addition to the information of the similar examples, searching for the intellectual and designing presentation of similar projects in order to be a database for the student to discuss during the first academic year with the subject professors and with the participation of all the students, presenting a detailed report of these works at the end of the first part of the fifth academic year and, thus, forming a base of all the designing planning Intellectual presentations of the project that will be carried out during the second academic term.

### **10. Learning Outcomes**

At the end of the class, the student will be able to:

- l. Analyze and archive individual project of specific function.
- m. Be aware of many kinds design process and how to solve different related problems connected to building.
- n. Relation between architectural and structural form.
- o. Learn how to produce complete single complete project.
- p. Learn more about architectural details.

### **11. Teaching and Learning Methods**

- p. Lectures.
- q. Tutorials.
- r. In-Class Questions and Discussions.
- s. Connection between Theory and Application.
- t. Working drawing projects.

- u. In- and Out-Class oral conservations.
- v. Site visits and documentation.
- w. Models.

### 12. Assessment Methods

- i. Examinations, Tests, and day sketches.
- j. Student Engagement during Lectures.
- k. Responses obtained from Students, questionnaire about.
- l. Curriculum and Faculty Member (Instructor).
- m. Working drawing projects\_

### 13. Grading Policy

#### **Quizzes:**

- g. There will be (30 degrees of 100) for day sketches during the academic year, the day sketches will count 10% of the total course grade.
- h. Preliminary design of thesis project till pre final submission, and will count 40% of the total course grade.
- i. Final submission of thesis project and will count 50% of the total course grade.

## 14. Course Structure

Week					
1	Discussing the primary report draft of the thesis project which has been adopted and which its information has been gathered during the summer holiday.				
2					
3	Completing the collection of information and concluding the values, basic principles and the intellectual trends which were inferred through the direct dialogue with professors or through the reliance on the dependable references and the historical roots of the adopted project reality.				
4					
5					
6	An attempt to reflect the conclusions of the previous study in a compositional concept which gives us primary conception of the whole designing concept without going into accurate executive details.				
7					
8					
9	Preparing the report in its final form with the implementation a group of plans inferred from the comprehensive database of the whole work.				
10					
11					
12	Note: The academic term involves discussions with students' participation to enrich the study.				
13					
14					
15					
16	The student repeats the attempt to present a comprehensive compositional concept in the form of three dimensional figure and plain plans which give a preliminary conception of the proposed project.				
17					
18	Going into the details of the project's general application and applying the adopted method and then identifying the adopted engineering systems and circulation systems and the details of the project divisions.				
19					
20					
21	Detailed studies of the project's main parts and solving the designing items and reaching a clear expression of elevations and the project's interior features.				
22					
23					
24	Are specified for the final preparation of the final project.				
25					
26					
27					
28					
29					
30	Note: All the stages of presentation are subjected to the public discussion with professors and students. Moreover, there are quick tests to accompany the student's ability.				

## 15. Infrastructure

Required reading:

- CORE TEXTS
- COURSE MATERIALS
- OTHER

**Textbook & References:**

Any book or magazine related to architectural and interior design.

Special requirements (include for example workshops, periodicals, IT software, websites)	<ul style="list-style-type: none"> <li>Available websites related to the subject.</li> </ul> <p>Extracurricular activities.</p>
Community-based facilities (include for example, guest Lectures , internship , field studies)	<ul style="list-style-type: none"> <li>Scientific Videos.</li> </ul> <p>Site visits</p>
<b><u>16. Admissions</u></b>	
Pre-requisites	
Minimum number of students	70
Maximum number of students	75
<b><u>17. Course Instructors</u></b>	<p><b>Instructor:</b>  <b>Lecturer:</b>  <b>Ameera Jaleel Ahmed Al-Esawy</b>  Arch. Engr. Dept.  College of Engineering  University of Babylon  Email:  <a href="mailto:eng.ameera.jaleel@uobabylon.edu.iq">eng.ameera.jaleel@uobabylon.edu.iq</a>  Name: Mahmood Amer Chabuk  e-mail: eng.mahmood.aa@uobabylon.edu.iq</p> <p><b>Mijed Abbas Abd Al-Najar</b>  Arch. Engr. Dept.  College of Engineering  University of Babylon</p> <p><b>Seraj Jabbar Kadhum Al-Murshedy</b>  Arch. Engr. Dept.  College of Engineering  University of Babylon  Email:  eng.seraj.jabar@uobabylon.edu.iq</p>

**Module 45**

Code	Course/Module Title	ECTS	Semester
UOBAB0106091	Theories of Urban Design	2	10
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2	48	27
Description			
<p>The course is designed to Study the urban design theories, background and explore the design of cities, from urban strategies to architectural interventions, addressing concerns of environmental justice and urban equity.</p> <p>It introduces the student to the concepts of urban space, the public space organizational relations of the urban body, the components of the urban fabric, traditional and modern, patterns of the urban body, and its applied models . It also includes identifying theories of perception, assimilation, and understanding of the urban fabric</p>			

**Contact**

Program Manager:

Ula Abd Ali Khaleel | Ph.D. in Architecture | Lecturer

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**Module 46**

Code	Course/Module Title	ECTS	Semester
UOBAB0106101	Architectural criticism theories		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			
<p>This course focuses on informing students about the most influential critical theories in the field of architecture. Also It analyzes the relationship of "critical theory", "design theory", "architecture theory" and "philosophy" and shows how the act of production: authorship, composition, design, and focus "affects architectural design</p>			

Name: Name: Asst.Prof.Ameera Jaleel Ahmeed

E-mail: [eng.ameera.jaleel@uobabylon.edu.iq](mailto:eng.ameera.jaleel@uobabylon.edu.iq)

## Module 47

Code	Course/Module Title	ECTS	Semester
UOBAB0106104	Profession Practice		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			
<b>The course aims to introduce the student to the principles of professional practice and the duties of the architect towards this profession through his design proposals, first as a thinker and creator of it, to his field practice as a coordinator and leader of the executive team... Secondly, the student also gets acquainted with the most important duties of the architect as an implementer and as a participant in architectural competitions or in business.</b>			

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## HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

### COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

<b><u>1. Teaching Institution</u></b>	College of Engineering University of Babylon
<b><u>2. University Department/Centre</u></b>	Architectural Department
<b><u>3. Course title/code &amp; Description</u></b>	<b>Profession Practice</b> The subject aims to identify the student with the basics of profession practice and the duties of the

	architectural engineer
<b><u>4. Programme(s) to which it Contributes</u></b>	Architecture engineering
<b><u>5. Modes of Attendance offered</u></b>	Semester system
<b><u>6. Semester/Year</u></b>	2 <sup>nd</sup> / Academic Year 2023-2024
<b><u>7. Number of hours tuition (total)</u></b>	20 hrs. /2hrs. per week
<b><u>8. Date of production/revision of this specification</u></b>	Oct. – 10 / 2023
<b><u>9. Aims of the Course</u></b>	
The subject aims to identify the student with the basics of profession practice and the duties of the architectural engineer towards this profession through his design presentations, first, being as a creative thinker and, second, being as a coordinator and a leader of the working team in his field practice.	

### **10. Learning Outcomes**

the student identifies the main tasks of the architectural engineer as a performer and participant in the architectural works contest or in the research and designing works through the principle of working with the different state offices. The student also identifies the basics of professional hierarchy through the professional regularities used in the Iraqi Union of Engineers.

### **11. Teaching and Learning Methods**

1. Lectures.
2. Tutorials.
3. Homework and Assignments.
4. Tests and Exams.
5. In-Class Questions and Discussions.
6. Connection between Theory and Application.

### **12. Assessment Methods**

Examinations, Tests, and Quizzes.

### **13. Grading Policy**

Week	<b>Theoretical Content</b>
1	The architectural engineer and the architectural profession
2	Architectural consultative services
3	The professional hierarchy
4	Engineering and architectural professional organizations
5	Practice system and professional behavior according to the Union of Engineers law
6	Standard in choosing the architectural engineers
7	Architectural contests
8	Consultative engineering contract
9	The wages of the architectural engineers
10	construction laws / the legislative rules concerning construction works
11	
12	
13	