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

Academic Program and Course Description Guide

2025

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.

Concept 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 Dep.

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

Final Certificate Name: ... Architectural Engineering.

Academic System: year, semester course.

Description Preparation Date:File / 11 / 2024

Completion Date: / 5 /2025

Signature:

Head of Department Name:

Dr. Hussam Jabbar

Date: 5/5/2025

Signature:

Scientific Associate Name:

prof.Dr. Ali H. Nahhal

Date:

The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date:

Dr. Zainab Ali Omran

Signature:

Approval of the Dean

1. Program Vision

The vision of the Department of Architecture at the University of Babylon is to be a center of excellence in education and scientific research, contributing to the development of architecture and urbanism, and serving the community. This is achieved by striving for academic leadership and excellence at the local, regional, and international levels. This is achieved by offering distinguished academic programs that combine theory and practice, keeping pace with the latest developments in the field of architecture. The Department also aims to prepare highly qualified architects capable of competing in the local, regional, and international labor markets, equipping them with the knowledge and skills necessary for architectural design, urban planning, and interior and exterior design, with a focus on aesthetic, functional, and environmental aspects. The Department also aims to contribute to sustainable development and focus on sustainable architectural design, which takes into account environmental, social, and economic aspects by designing environmentally friendly buildings and cities that conserve natural resources. The Department also aims to serve the community by providing architectural consultations, participating in development projects, and finding innovative solutions to the architectural and urban challenges facing society. Furthermore, the Department strives to keep pace with modern technological and architectural developments and incorporate them into the academic curriculum. Using the latest technologies in architectural design and urban planning, such as Building Information Modeling (BIM) and parametric design.

2. Program Message

The Bachelor of Science in Architecture program offers a comprehensive education that prepares students for a successful career in architectural design. This program combines engineering principles with architectural aesthetics to create functional and visually appealing buildings. Students will learn

architectural design principles, the fundamentals of architectural composition, spatial analysis, building materials, construction techniques, sustainable design, and building systems integration. Additionally, students will develop an architectural literacy and the ability to innovate and innovate based on multiple data sources. Through a rigorous curriculum, students will develop the technical skills necessary to design and construct buildings that meet safety standards, are energy efficient, and are environmentally sustainable. Furthermore, through technical courses, students will also gain valuable practical experience through laboratory exercises, design projects, and internships with industry professionals. This hands-on experience helps students develop a deep understanding of how their designs translate into practical applications.

3. Program objectives

Our Architecture program offers a comprehensive curriculum that provides students with a solid foundation in the technical and creative aspects of the field. Through a combination of theoretical courses and practical projects, our program aims to provide students with:

1. The skills and knowledge necessary for success in architectural and urban design.
2. Develop students' understanding of structural analysis and design principles: They learn how to analyze and design various structural elements and systems, ensuring the safety, sustainability, and integrity of buildings. They will also gain knowledge in the selection of building materials and construction techniques, enabling them to make informed decisions regarding project specifications.
3. Foster creativity and innovation in architectural design: Our program encourages students to think creatively when designing functional and aesthetic structures. Through studio sessions, workshops, and design critiques, students will hone their design skills while incorporating

sustainability practices into their work. Architecture students begin taking core architecture courses in their first year and are required to complete a 15-week internship per semester, two semesters per year. These courses include "Architectural Design, Graphic Design, and Freehand Drawing" in the first and second years, and in the third, fourth, and fifth years. Architectural design is taught alongside theoretical subjects, respectively.

4. Program Accreditation

NO

5. Other External Influences

Field visits, summer training, seminars, workshops, participation of architectural departments in discussing projects, participation in Arab and international conferences

6. Program Structure

Program Structure	Number of Courses	Credit Hours	Percentage	Reviews*
Institution Requirements				
College requirements				
Department requirements	41	115	100%	156 hours
Summer Training				
Other				

* This can include notes whether the course is basic or optional.

7. Program Description

Year/Level	Course Code	Course Name	Credit Hours	
2024-2025 Third year Fifth Semester	UOBAB0106051	Architectural design		
	UOBAB0106052	Computer III		
	UOBAB0106053	Building Construction		
	UOBAB0106054	History of Architecture		
	UOBAB0106055	Principles of Planning		
	UOBAB0106056	History of Architecture		
	UOBAB0106057	English Language		
	UOBAB0106058	Illuminating Service		
	UOBAB0106059	Health Services		
2024-2025 Third year Sixth Semester	UOBAB0106051	Architectural design		
	UOBAB0106061	Computer III		
	UOBAB0106062	Building Construction		
	UOBAB0106063	Methods of Conservation		
	UOBAB0106064	Principles of Planning		
	UOBAB0106065	History of Architecture		
	UOBAB010606	Structure II		
	UOBAB0106067	Air Conditioning Services		
2024-2025 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	۞	
2024-2025 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	۞	۞
2024-2025 Fifth year Nine Semester	UOBAB0106091	Theory of Architectural Design	۞	
	UOBAB0106092	Philosophy of Architecture	۞	
	UOBAB0106093	Urban Design	۞	۞
	UOBAB0106094	Iaqi Architecture	۞	
2024-2025 Fifth year Tenth Semester	UOBAB0106101	Architectural Criticism Theories	۞	
	UOBAB0106102	Estimation and Specification	۞	
	UOBAB0106103	Thesis	۞	۞
	UOBAB0106104	Profession Practice	۞	

8. Expected Learning Outcomes Of The Program

Knowledge

1. Understanding architectural theories and concepts: acquisition of a comprehensive knowledge of the history of architecture, design methods, and theories of modern and sustainable architecture.
2. Knowledge of technologies and materials: understanding the properties of materials used in construction, modern construction technologies, and the use of computer programs specialized in architectural design.
3. Awareness of environmental and social considerations:

1. Preparing qualified architects to meet the needs of the labor market and society: providing graduates with the knowledge and skills necessary to exercise the profession of architecture successfully and meet the needs of the labor market.
2. Developing the ability to think critical and creative in solving complex architectural problems in innovative ways.
3. Encouraging students to think creative and innovate in building and spaces design
4. Enhancing awareness of the importance of sustainable and environmental design throughout the design of sustainable and environmentally friendly buildings and contributing to achieving sustainable development goals.
5. Developing the ability to communicate and work effectively:

understanding the influence of architectural design on the environment and society, and the ability to design sustainable buildings and take into account social needs. 4. Understanding laws and regulations: familiarity with building laws and local and international regulations related to architectural design.	6. Developing effective communication skills for students, whether written or oral. 7. Enhancing the ability to work within a team to successfully implement architectural projects. 8. The ability to deal with the latest technological programs used in architectural design.
Skills	
1. Skills for architecture 2. Thinking skills 3. General and mobile skills (other skills related to the ability to employ and personal development).	1. The student's knowledge of the design subject and the student's ability to distinguish between real standards or on the drawing paper. 2. The skill of the architecture student is not like any of the students, so the architecture student is the skill of thinking to turn through what he thinks into a tangible reality in the end (knowing that the architect learns how to think and how he begins to put the idea of the design from this skill. The student is able to clarify his idea and persuade his teacher to sign) 3. Verbal communication: The student is able to clarify his design ideas 4. Collective work: Work within a group that develops the student's ability 5. Analysis and investigation: Collecting information systematically, studying the work site, then starting with his idea 6. Written contact: The student has the ability to express clearly from his project and drawing it 7. Planning and Organization: The student is able to draw the scheme

	8. Flexibility: successfully adapting to changing situations and design environments 9. Time Management: Time Management in a way that equals application requirements for architectural design, especially since there is a schedule of appointments for project ideas and job requirements to the end of application
1. Global skills 2. Negotiating and persuading 3. Driving 4. Independence with work	1. The student is able to clarify the project 2. The student is able to influence, change and reach an agreement 3. It is able to motivate and direct others
Values	
1. Working in the spirit of the team 2. That the student realize the importance of academic courses. 3. Estimating cultural heritage: 4. Social and environmental responsibility 5. Professional ethics	1. Commitment to the ethics of the university institution 2. Receiving information, cognitive acceptance and constructive criticism. 3. Commitment to learning ethics by avoiding reproduction or use of architectural projects from ready universities or projects. 4. The student learns to create architectural projects by receiving information and learning within the ceremony. 5. The graduation of architects who appreciate cultural and architectural heritage, and seek to preserve it

9. Teaching And Learning Strategies

Teaching and learning strategies in the field of architecture vary to include methods aimed at developing student skills in design, critical thinking and creativity. The strategies followed in the Department of Architecture - Babylon University as follow:

- **Project -Based Learning:**
  - It focuses on the application of theoretical concepts in realistic practical projects.
  - I encourage students to work team and solve complex problems.
  - Develop their design, planning and implementation skills.
- **Learning to Solve Problems:**
  - Provides Students with Architectural Challenges That Require Creative Analysis and Thinking.
  - Encourages Research, Investigation And Experimentation.
  - Develop their skills in making decisions and solving practical problems.

- **Cooperative Learning:**
  - I encourage students to work in groups to exchange ideas and experiences.
  - Strengthening communication, leadership and teamwork skills.
  - It helps to develop a deeper understanding of architectural concepts through discussions and cooperation.
- **Investigative Learning:**
  - I encourage students to ask questions and search for answers themselves.
  - Develop their skills in research, analysis and evaluation.
  - Strengthening their curiosity and love to explore in the field of architecture.
- **Technology Use:**
  - Including 3D design programs and virtual reality in the learning process.
  - Use digital tools to create and display architectural models.
  - Providing online educational resources to enhance self -learning.
- **Learning Through Practice:**
  - Field visits to architectural sites and historical buildings.
  - Participation in practical workshops to develop manual skills.
  - Encouraging students to train in engineering offices.
- **Brainstorming:**
  - Encouraging students to present the largest possible amount of ideas and solutions to a problematic problem.
  - Developing students' ability to think and innovate.
- **Self -Learning:**
  - Encouraging students to learning continuously and developing their skills themselves.
  - Providing educational resources that help self -learning.

10. Evaluation Methods

1. **Tests**: Through conducting daily, monthly and separate tests to assess theoretical knowledge of architectural concepts, as well as conducting practical tests to evaluate manual skills, drawing and design, the extent of students understanding the basic theoretical decisions and the possibility of their application in the design process.
2. **Optimization of duties**: It is represented by homework and regular classes that the student performs during the semester
3. **Evaluation of presentations**: writing and preparing reports and research, explaining and clarifying his design ideas and evaluating the level of use of tools and programs in project display.
4. **Project evaluation**: As the architectural design projects, architectural and manual drawing are evaluated by (focus on assessing design, planning, implementation, introducing initial ideas, daily tests, initial advances, penultimate submission, final presentation, evaluation of the architectural models made by students, with a focus on accuracy and creativity with a focus on the clarity of ideas and communication skills)
5. **Commitment to duties and attendance in the lectures**

6. **Participation evaluation:** Evaluation of participation in class discussions, lectures, extra – curricular activities, workshops, evaluation of teamwork and cooperation with colleagues. And the level of interaction with professors and colleagues
7. **Evaluation through summer training and scientific visits:** preparing reports and summer projects, evaluating the student's ability to analyze buildings and architectural sites and link theoretical concepts to practical application.
8. **Simulation of virtual reality:** relying on architectural design simulation using three – dimensional design programs. Evaluating the student's ability to use digital tools and programs efficiently.

11. Teaching Staff

Member of Teaching Staff

Academic Rank	Specialization		Special Requirements/Skills (If Any)		Number Of Staff Member	
	General	Privet			Cadre	External Lecturer
Professor Dr.	Architecture Engineering	Urban Design\Islamic Architecture			1	
Professor Dr.	Architecture Engineering	Urban Design \ Architectural Theory			1	
Professor Dr.	Civil Engineering	Building Materials			1	
Professor.	English Language	English Language Teaching Methods			1	
Assistant Professor Dr.	Architecture Engineering	Urban Planning			1	
Assistant Professor Dr.	Architecture Engineering	Urban Design			1	
Assistant Professor Dr.	Architecture Engineering	Sustainable Urban Design			1	

Assistant Professor Dr.	Computer Science	Image Recognition			1	
Assistant Professor Dr.	Surveying Engineering	Urban And Regional Planning			1	
Assistant Professor.	Architecture Engineering	Architecture Technology			1	
Lecturer Dr.	Architecture Engineering	Architectural Design			3	
Lecturer Dr.	Architecture Engineering	Urban Design			1	
Lecturer Dr.	Civil Engineering	Structure			1	
Lecturer Dr.	Mechanical Engineering	HVAC				1
Lecturer	Management And Economics	Business Management				1
Lecturer	Architecture Engineering	Urban Design			1	
Lecturer	Fine Arts	Drawing			1	
Assistant Lecturer	Architecture Engineering	Architectural Design			4	
Assistant Lecturer	Architecture Engineering	Architectural Design \ Architecture Technology			1	
Assistant Lecturer	Architecture Engineering	Urban Design			1	
Assistant Lecturer	Urban Planning	Urban Planning			1	
Assistant Lecturer	Electrical Engineering	Electronics And Communications			1	

12. Professional Development

Monitoring New Faculty Teaching

1. Introducing the vision, message and objectives of the department, organizational structure and administrative systems of the department and helping them build professional relationships with their colleagues and superiors.
2. Training them in effective teaching methods, presentation techniques and communication with students, providing them with the tools and resources necessary to design curricula, evaluate students 'performance and encourage them to use modern educational technologies
3. They are on how to conduct scientific research and write research proposals.
4. Allocating experienced academic guides to help the new faculty members overcome the challenges they face.
5. Providing psychological and professional support to them to ensure a balance between their professional and personal lives and the creation of a network between new faculty members to exchange experiences and ideas.
6. Encouraging them to participate in workshops, conferences and training programs to develop their skills and knowledge.

Professional development of Faculty Members

1. Urging the teaching staff to participate in international and local conferences and to throw workshops, scientific lectures and seminars in addition to.
2. Spreading scientific research in a solid global contamination to enhance their scientific position and improve their academic capabilities.
3. Encouraging faculty members to continue learning, developing their self-skills, and providing various professional training and development opportunities.
4. Emphasizing the importance of adhering to the ethics of the profession and academic standards.
5. Improving teaching skills by developing modern and effective teaching methods, using innovative educational techniques, developing communication skills, interaction with students, in addition to designing curriculum and evaluating students.

13. Acceptance Criterion

The student's acceptance in the Department of Architecture is dependent, depending on the conditions and regulations of the Ministry of Higher Education and Scientific Research by relying on the student rate in the sixth preparatory stage as a different way between the rates of student graduates to enroll and accept the college depending on the following systems:

- The central admission of the morning study

- Parallel acceptance

14. The Most Important Sources of Information About the Program

- Directory of the Faculty of Engineering, Babylon University
- The website of the Faculty of Engineering, Babylon University in both English and Arabic
- The website of the University of Babylon
- The website of the Iraqi Ministry of Higher Education and Scientific Research

15. Program Development Plan

1. Forming committees in the scientific department whose task is to follow up on the program and conduct a comprehensive review of the curricula and the developments and updates of the curricula so that they are appropriate with the requirements of the labor market.
2. Developing the skills of faculty members through continuous training, encouraging scientific research, exchanging experiences, using the latest available learning methods, and taking advantage of modern digital methods in teaching.
3. Enhancing the educational environment by providing laboratories and workshops equipped with the latest technologies and equipment for architectural design, establishing a specialized architectural library and creating a creative environment.
4. Enhancing cooperation with the labor market and society by setting up partnerships with engineering offices and contracting companies, organizing workshops and lectures delivered by experts in the field of architecture in addition to participating in community projects
5. Developing students' skills by developing critical and creative thinking skills, communication skills, teamwork and project management
6. Developing students' skills by developing critical and creative thinking skills, developing communication skills, teamwork and project management
7. Students' opinions at the end of each semester on the academic program
8. Darrowing the opinions of the faculty members of the end of each semester on the best of the tart to develop the academic courses and the teaching methods followed

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 16

TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

COURSE SPECIFICATION
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 programmer specification.

1. Teaching Institution	College of Engineering University of Babylon
2. University Department/Centre	Architectural Engineering Department(AED)
3. Course title/code & Description	**Lighting Servives**
4. Program (s) to which it Contributes	B.Sc. in Architectural Engineering
5. Modes of Attendance offered	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 .
6. Semester/Year	1st Academic Year 2024-2025
7. Number of hours tuition (total)	30 hrs. / 2 hrs. per week
8. Date of production/revision of this specification	Oct. – 10 / 2024

9. Aims of the Course

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.

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					

15. Infrastructure

Required reading:
· CORE TEXTS
· COURSE MATERIALS
· OTHER

References:-

1- "Window Performance and New Technology" - Proceedings of Building Science Insight Conference - National Research Conceal 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 Archilecture Press, London, U.K., 1980 . 12- Gland, D.R., "Lighting Design and Application," TVA Office Complex, Gatanoka, U.S.A.,-1980. 13- Halse, Albert O., "The Use of Colour in Interior," Mc Graw Hall, New York, 1968 . **Others** 1. Notebook prepared by the instructor of the course 2. Collection of sheets of solved and unsolved problems and Exams questions
Special requirements (include for example workshops, periodicals, IT software, websites)	• movies and videos. • Available websites related to the subject. • ex- reports
Community-based facilities (include for example, guest Lectures , internship , field studies)	• Field and scientific visits. • Extra lectures by foreign guest lecturers(if founded)

16. Admissions	
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			
The student should be able to simulate reality by creating models and designs that resemble reality			

2- The student should be creative in the field of interior design and decoration

1. Course Name:
Computer V
2. Course Code:
UOBAB0106052
3. Semester / Year:
2024
4. Description Preparation Date:
3/4/2024
أشكال الحضور المتاحة5.
عدد الوحدات (/الكلي) عدد الســـاعات الدراســـية 6. (3)(الكلي)
اذا اكثر من اسم يذكر) اسم مسؤول المقرر الدراسي 7.
الاسم: ايفان ماضي حمزه الايميل: eng.evan .rubae@uobabylon.edu.iq

. اهداف المقرر

المادة الدراسية	1- يجب على الطالب أن يكون قادرًا على محاكاة الواقع من خلال إنشاء نماذج وتصاميم تشبه الواقع. 2- يجب على الطالب أن يكون مبدعًا في مجال تصـــميم الديكور والتصميم الداخلي.

. استراتيجيات التعليم والتعلم

ستراتيجية	ان يقوم الطالب بعمل الكثير من المجســمات وما هو موجود في الطبيعة وإضــافة المواد والإضاءة والكاميرا للمشهد ليظهر بشكل يحاكي الواقع

بنية المقرر

أسبوع	لساعات	ت التعلم المطلوبة		اسم الوحدة او الموضوع	ة التعلم	ة التقييم

الاول	3	ان يكون الطالب قادر على انشاء مجسمات تحاكي الواقع	Explain interface 3dmax(menu bar,tool bar)	عرض على الشاشه العديد من الاوامر وبالتالي عمل مجسمات تحاكي الواقع	عمل اختبارات يومية وشهريه
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)		
السادس	3		Explanation of clone order and how to import and export		
السابع	3		Explanation of pivotpoint orders Examination		
الثامن	3		Explanation of zooming orders		

		Explanation of the list of standard primitive box,teapot,plane,tube,torus		3	التاسع
		Explanation of the list of standard primitive (cylinder,pyramid,sphere,geosphere,cone)		3	العاشر
		Explanation of the list of advanced objects(hedra,chamf		3	الحـادي عشر
		Explanation of the list of advanced torusknot,oiltank,capsule,)		3	الثـانـي عشر
		Explanation of the list of advanced (l-ext,c-ext,hose,ringwave,prism)		3	الثـالـث عشر
		Examination		3	الـرابـع عشر
		Examination		3	الخامس عشر

١١. تقييم المقرر
توزيع الدرجة من 011 على وفق المهام المكلف بها الطالب مثل التحضير اليومي واالمتحانات اليومية والشفوية والشهرية والتحريرية والتقارير .... الخ

١٢. مصادر التعلم والتدريس	
الكتب المقررة المطلوبة (المنهجية أن وجدت)	
المراجع الرئيسة (المصادر)	
الكتب والمراجع الساندة التي يوصى بها (المجلات العلمية، التقارير....)	
المراجع الإلكترونية ، مواقع الانترنيت	

AUTODESK 3DS MAX 2011

Information interface technology in 3D Max

Basics of 3D Studio Max 2010

Module 22

1. Course Name:
English Language 111
2. Course Code:
UOBAB0106057
3. Semester / Year:
First Smelter /2024-2025
4. Description Preparation Date:
3/4/2024
5. Available Attendance Forms:
6. Number of Credit Hours (Total) / Number of Units (Total)
30 Hours / 2 Units
7. Course administrator's name (mention all, if more than one name)

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

Module 23

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

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 anddemonstrate 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	Architectural Engineering Department (AED)
3. Course title/code& Description	**Architectural Design** 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
4. Programme (s) to which it Contributes	Architectural Design (AD)
5. Modes of Attendance offered	
6. Semester/Year	1st & 2nd / Academic Year 2024-2025
7. Number of hours tuition (total)	360 hrs. / 12 hrs. per week
8. Date of production/revision of this specification	1ST Project /October -13-2024 2nd Project /January -12-2024 3rd Project /June -28-2024

9. Aims of the Course . 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 1st 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 2nd 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.

14. Course Structure			
Week	Hours/ week	project	
1st course			
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

2nd course			
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
17. Course Instructors	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

Module 24

Code	Course/Module Title	ECTS	Semester
UOBAB0106087	Suveying		
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/w)**
Description			
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.			

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			
The vocabulary of the history of architecture is reviewed based on the method (comparative analysis) and the distinction between the different architectural styles throughout history and on the basis of: geographical location, historical values, climatic and geological descriptions, construction methods used, specifications of ceilings and foundations, while addressing the history of art through its various eras, such as decorations, plastic art, ornaments and others. Other arts, with an emphasis on the origins of urban gatherings of different civilizations. The history course for the third academic year covers the following architectural styles: Greek, Roman, Advanced, Byzantine, Romanesque, Gothic and Renaissance architecture.			

Module 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			
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.
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.

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	1-10-2024

8. Aims of the Course

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.

10. Course Structure

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	2	To be able to under stand	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: 0pen
2. Main references (sources) open
A- Recommended books and references (scientific journals, reports…).open
B-Electronic references, Internet sites…0pen
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	1-10-2024
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(plazzas), 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 .		

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

Description

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.

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

1. Course Name:

Methods of Conservation

2. Course Code:

UOBAB0106063

3. Semester / Year:

Sixth Semester / Third Year

4. Description Preparation Date:

24/3/2024

5. Available Attendance Forms:

6. Number of Credit Hours (Total) / Number of Units (Total)

30 hours / 15 weeks

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

Course Objectives	•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. 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 • •

9. Teaching and Learning Strategies

Strategy	1. Graduating highly qualified architects in the field of urban planning and design 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. 3. Instilling a spirit of imagination in graduates and a commitment to acquiring knowledge and serving the community. 4. Contributing project ideas andconducting research for the benefit and development of the local community. 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

10. Course Structure

Week	Hours	Required Learnir Outcomes	Unit or subjec 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,	Rehabilitation historical Buildings		

		contemporary job selection, criteria for evaluating efficiency of use			
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 Design		
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/w)**
Description			
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.			

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.

4. Course Structure

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

overlapping with the industrial design, craftsmen production, materials and those trends that o 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 a enlarge the students' imagination and creativeness at the intellectual levels and using the interior design elements in shape, color, light and furniture.

Knowledge of Interior spares in architecture and its main and second Eler and it's his topical styles and how to design it

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 perceptional 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 q 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 (un programmed) 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	
17. Course Instructors	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

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			
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			

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	Architectural Engineering Department (ARC)
3. Course title/code & Description	**Advanced Building Fourth Year** 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.
4. Programme(s) to which it Contributes	Architectural Engineering (ARC)
5. Modes of Attendance offered	**The program:** annual- theoretical lectures, examinations, discussions, and preparing reports
6. Semester/Year	1st & 2nd /Academic Year 2024-2025
7. Number of hours tuition (total)	60 hrs. / 2 hrs. per week
8. Date of production/revision of this specification	Oct. – 10 / 2024

9. Aims of the Course

a. Identify the students with technology (in general) as an intellect and application and the building technology in particular.
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.

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 conservations.
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	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.				
2					
3					
4					
5					
6					
7					
8					
9					
10					
11	The services: their importance and degree of influencing architecture, separation and integration in the constructional activity - the architectural designer role's changing				
12					
13					
14					
15					
16					

17	Basics and principles of raising construction to a modern technology – scaling – modular coordination, the previous production of components, machinery, the performance description. 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.
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	The influential factors in selecting the implementation technology – the Iraqi experience in the directed construction – the prefabricated construction: linear and surface components manufacturing, joints / models from the Iraqi experience.
28	
29	
30	

15. Infrastructure	
Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	**Textbook:** "Structure Systems"; with apreface by Rapson and an article by Hannskarl Bandel. Deutsche Verlags-Anstalt Stuttgart. 1967 printed in Germany. **References:** Notebook prepared by the instructor
Special requirements (include for example workshops, periodicals, IT software, websites)	• Available websites related to the subject. • Extracurricular activities.
Community-based facilities (include for example, guest Lectures , internship , field studies)	• Scientific Videos. • Extra lectures by foreign guest lecturers.
16. Admissions	
Pre-requisites	**ARC 404 Advanced Building Technology**
Minimum number of students	60
Maximum number of students	75
17. Course Instructors	***Instructor:*** **Lecturer:** **Seraj Jabbar Kadhum Al-Murshedy** Arch. Engr. Dept.

College of Engineering
University of Babylon
Email:
eng.seraj.jabar@uobabylon.edu.iq

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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

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.

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 .

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.

1. Course Name:
Architecture and Climate
2. Course Code:
UOBAB0106072
3. Semester / Year:
Seventh Semester / forth year
4. Description Preparation Date:
24/3l2024
5. Available Attendance Forms:
In classroom
6. Number of Credit Hours (Total) / Number of Units (Total)

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

Course Objectives	• Knoulagemement 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. • •

9. Teaching and Learning Strategies

Strategy	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 Learnin Outcomes	Unit or subjec name	Learning method	Evaluation method

1	2	General environmental concepts and familiarizing students with the most important climatic characteristics of different regions of the world, focusing on hot climate areas (humid and dry).	Climate and Man :-	Delivering Lectures using power point ,Mathematics, and physics	Term Tests=30% Quizzes=5 % Project=5% Final Exam 60%
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		**mid corse**			
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		**Second mid corse**			

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			
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.			

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			
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.			

1. Course Name:
English Language 1v
2. Course Code:
UOBAB0106077
3. Semester / Year:
First Semester /2024-2025
4. Description Preparation Date:

3/4/2024
5. Available Attendance Forms:
6. Number of Credit Hours (Total) / Number of Units (Total)
30 Hours / 2 Units
7. Course administrator's name (mention all, if more than one name)
Muayad Mingher Obeid :الاســـــــم eng. muayad mingher@uobabylon. edu. Iq : Email
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	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
Number	2				
1		***Unit One and Unit Two*** *Vocabulary; Skills Work and Everyday English.*			
2		Continued ***Unit One and Unit Two***			
3		***Unit Three and Unit Four*** *Grammar; Vocabulary; Skills Work and Everyday English.*			
4		Continued ***Unit Three and Unit Four***			
5		***Unit Five and Unit Six*** *Grammar; Vocabulary; Skills Work and Everyday English.*			
6		Continued ***Unit Five and Unit Six***			

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

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

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 varaibles 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

1. Course Name:
Architectural Design
2. Course Code:
UOBAB0106071
3. Semester / Year:
Seventh and Eighth Semester / Forth year
4. Description Preparation Date:
24 / 3/ 2024
5. Available Attendance Forms:
6. Number of Credit Hours (Total) / Number of Units (Total)
7. Course administrator's name (mention all, if more than one name)
Name D.Resha Malik , D. Ula ABD Ali , MS.C.Alaa Hadi , MSC. Sara mhemmad jammeel

:Email: eng.resha.malik@uobabylon.edu.iq
eng.alaa.hadi@uobabylon.edu.iq
eng.ula.abdali@uobabylon.edu.iq

8. Course Objectives

Course Objectives	**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** **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** **3. 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•** •

9. Teaching and Learning Strategies

Strategy	

10. Course Structure

Week	Hours	Required Learni Outcomes	Unit or subjec name	Learning method	Evaluation method
1	11 hours/2days	**design project 1: A multi- function urban space**			طرائق التعليم والتعلم Day sketching اختبار يومي Introducesالتقديم الاولي
2		**WEEKI Choose a specific start point as network to guide design concept and articulate this network to fit**			

		location & function.			Introduces التـقـديـم الثانوي Pr final تقـديم مـا قبل الاخير Final التـقـديـم النهائي
3		**WEEK2 Full analysis of an example related to the project.**			
4		**and primary presentation (first & second)**			
5		**WEEK3 Development of the concept**			
6		**WEEK4 Detail site plan**			
7		**Design project(2) urban functional complex**			
8		**WEEK7 Introducing Lecture**			
9		**WEEK8 Studies**			
10		**WEEK9 Studies Submission**			
11		**WEEK10 Concept, Master Plan**			
12		**WEEK11 Day Sketch**			
13		**WEEK12 Detailed Plans, Elevations, and Sections**	Project has Malty functions and malty purpose		
14		**WEEK13 Details and Land Scape**			

15		**WEEK14 Pre- Final**			
16					
		Half year brea;			
17		**studies**			
18		**studies**			
19		**Site plan**			
20		**Site plan groups**			
21		**Detailed site plan individual**			
22		**First submission**			
23		**second submission**			
24		**Pre final**			
25		**Final individual design stage**			
26		**Group design stage**			
27		**Group design stage**			
28		**Second submission**			
29		**Third submission**			
30		**details**			
31		**Pre final groups**			
32		**Final and model groups**			

Module 34

Code	**Course/Module Title**	**ECTS**	**Semester**
UOBAB0106085	Landscape Design		
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/w)**
Description			

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.

1. Course Name:
Landscape Design
2. Course Code:
UOBAB0106085
3. Semester / Year:
second semester 2024-2025
4. Description Preparation Date:
3/4/2024
5. Available Attendance Forms:
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.
6. Number of Credit Hours (Total) / Number of Units (Total)
The number of hours (60 hours) / the number of units (6 units)
7. Course administrator's name (mention all, if more than one name)
1- Rawaa Abd-almunaaf Hakeem 2- Sarah Mohammed Jameel
8. Course Objectives

Course Objectives	• 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. • 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. • 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. • 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.

9. Teaching and Learning Strategies

Strategy	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
1st 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.	• Lectures • Interactive lessons (using integrated learning) • Assignments and reports • Tests (in-person and electronic) and exams	• Weekly tests (in-person) • Final exam • Reports and homework assignments (electronic)
2nd 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	Theoretical: The fundamental concepts of outdoor spaces. Practical: First		

		stages of its evolution throughout different historical epochs.	project: Design project for a rooftop garden for one of the buildings within the Al-Ayadi residential complex in Baghdad city.	• Questions and discussions within the classroom • The relationship between theory and practice • Reports and presentations	
3rd week	4	The student should list the elements of landscape design (color, line, texture, scale, shape).	Theoretical: Elements of landscape design.		
4th 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.	Practical: First project: Study Phase: Presenting the initial idea for the design project.		
5th week	4	The student should list and explain the types of outdoor spaces in terms of their size and location within the city.	Theoretical: Botanical elements in outdoor space design Practical: First project: First preliminary presentation.		
6th 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: Types of landscape spaces within cities. Practical: First project: Presenting the pre-final version of the first design project.		
7th week		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: Structural elements in outdoor spaces. Practical: First		

			project:		
	4		Final presentation of the first design project.		
	4	Mid exam			
8th week		The student should enumerate the general design principles for outdoor spaces and how to apply them to various global projects.	Theoretical: Strategies for developing river spaces.		
9th week	4	The student should observe how to apply the theoretical concepts studied within a local real-life project.	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				
10th week		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 several global projects within cities.	Mid exam		
11th week	4		Theoretical: Principles and standards for designing outdoor spaces. Practical: Second project: Initial presentation - first preliminary.		
12th week	4	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.	Academic trip (field visit to the Tigris River Corniche within the Al-Mutanabbi and Al-Qushla area in Baghdad city).		
	4	The student should understand the concept of tactical urbanism and the design strategies applied in designing outdoor spaces within this concept.	Theoretical: public spaces furniture.		

13th week 14th week 15th week	4	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. 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.	Practical: Second project: Pre-final presentation for the second design project. **Theoretical:** Types of urban interventions within public spaces. **Practical: Second project:** Final presentation of the second design project. **Theoretical:** Types of urban interventions (tactical urbanism) 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.		

			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.		

Module 35

Code	**Course/Module Title**	**ECTS**	**Semester**
UOBAB0106081	Housing	5	8
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/w)**
2	2	63	62
Description			
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. 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			

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	Architectural Engineering Departement (AED)
3. Course title/code & Description	**Housing**
4. Programme(s) to which it Contributes	Architectural Engineering (ARC)
5. Modes of Attendance offered	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.
6. Semester/Year	2nd semester / Academic Year 2024-2025
7. Number of hours tuition (total)	60hrs. / 2 hrs. per week
8. Date of production/revision of this specification	Oct – 10 / 2024
9. Aims of the Cours 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. ***e***	

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 theorical 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.

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.Student Engagement during Lectures

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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	Lecturer &	Quizze

			(formal) patterns	Test	
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, boarders 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 vertical circulation and emergency evacuation and fire limitations and some housing specialties Lecturer & in dry hot	Lecturer	
14	2		The housing standard and some high density housing limitations in	Lecturer	

			the concepts of the vertical circulation and emergency evacuation and fire limitations and some housing specialties in dry hot		
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

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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			
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.

1. Course Name:
Islamic Architecture
2. Course Code:
UOBAB0106084
3. Semester / Year:
second semester 2024-2025
4. Description Preparation Date:
1/4/2024
5. Available Attendance Forms:
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.
6. Number of Credit Hours (Total) / Number of Units (Total)
7. Course administrator's name (mention all, if more than one name)
Sarah Moha mmed Jamee l
8. Course Objectives

Course Objectives	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 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 Learnir Outcomes	Unit or subjec name	Learning method	Evaluation method
1st 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 communicatio n and sources of Islamic art and architecture.	• Lectures • Interactive lessons (using integrated learning) • Assignments and reports • Tests (in-person and electronic) and exams • Questions and discussions within the classroom • The relationship between theory and practice • Reports and presentation s.	• Weekly tests (in-person) • Final exam • Reports and homework assignments (electronic)
2nd 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.		
3rd 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 configurationa l patterns in Islamic Arab architecture.		
4th 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		

5th week	2	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. Top of Form	Islamic Arab architecture. Inward looking / the dialectic of form and function.		
6th week	2	Site visit and observation of Islamic architectural products on the ground, documenting them with photos, and writing a brief report about them.	Educational trip (including a visit to the most prominent historical buildings in one of the Iraqi cities).		
7th week	2	For the student to understand the fundamental design components of mosques through various examples.			
8th week	2	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).	Religious architecture (Mosque) in Islam. Components and basic elements of the mosque. Mosque styles in Islamic architecture.		
9th week	2	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			

10th week	2	several design aspects. For the student to understand the design characteristics of Islamic schools and to compare between school styles according to geographical environment. Mid exam	Worldly architecture (palaces and emirate residences). Schools in Islamic Arab architecture.		
11th week					
12th 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 Traditional dwelling houses		
13th 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.			
14th 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.		
15th week		For the student to enumerate the importance of walls, castles, and	khans and traditional markets in Islamic		

		fortresses through examples of Islamic cities that utilized these elements in their design.	architecture. 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			
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.			

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	Architectural Engineering Department (AED)
3. Course title/code & Description	**Theories of Architecture** 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
4. Programme(s) to which it Contributes	Architectural Engineering (ARC) `
5. Modes of Attendance offered	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.
6. Semester/Year	**2024-2025**

7. Number of hours tuition (total)	(2) hours per. Week , (60) hours total
8. Date of production/revision of this specification	Oct. 10 /2024

9. Aims of the Course

- Teach the main western architectural movements in the late 19th and 20th century till the folding movement.
- Analyze the thesis of great architects pioneers like le Corbusier and Robert Ventury for example
- Study the main landmark architectural buildings that resemble the thoughts of the movements related to.
-

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	19th century movements 1		
3	1	2	19th century movements 2		
4	1	2	19th century movements 3		
5	1	2	19th century movements 4		
6	1	2	quiz test		
7	1	2	20th 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 20th 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)	-----
16. Admissions	
Pre-requisites	
Minimum number of students	40
Maximum number of students	80 students
17. Course Instructors	***Instructor:*** **Assist Professor**. 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 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
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.

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
1- Developing the skill :- how to deal with the urban development concept, urban strategies, and applications? 2- Developing the skills of the student in the processes (documentation and inventory) of heritage in downtowns and center aera 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. 3- developing the student's ability to derive developmental conservation& development proposals. based on the laws and legislations of municipalities and urban planning teaching the student to cooperate and teamwork within the design preparation process

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	Architectural Engineering Department (ARC)
3. Course title/code & Description	**Architectural Designs** 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 cites. 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.
4. Programme(s) to which it Contributes	Architectural Engineering (ARC)
5. Modes of Attendance offered	**The program:** Design projects, detail drawings and models.
6. Semester/Year	1st semester /Academic Year 2024-2025
7. Number of hours tuition (total)	180 hrs. / 12 hrs. per week
8. Date of production/revision of this specification	Oct. – 10 / 2024
9. Aims of the Course	
The aim 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.

10· Learning Outcomes

At the end of the class, the student will be able to:
Analyze and archive buildings of most important area in city center.
Be aware of many kinds urban design problems and many types of buildings.
Relation between architectural and urban design.
Learn how to produce complete huge projects.
Learn more about urban details.

11. Teaching and Learning Methods

Lectures.
Tutorials.
In-Class Questions and Discussions.
Connection between Theory and Application.
Working drawing projects.
In- and Out-Class oral conservations.
Site visits and documentation.
Models.

12. Assessment Methods

Examinations, Tests, and day sketches.
Student Engagement during Lectures.
Responses Obtained from Students, Questionnaire about.
Curriculum and Faculty Member (Instructor).
Working drawing projects

13. Grading Policy

Quizzes:

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.

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	Day sketches during the semester				
14					
15					

15. Infrastructure	
Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	**Textbook & References:** Any book or magazine related to urban design.
Special requirements (include for example workshops, periodicals, IT software, websites)	• Available websites related to the subject. • Extracurricular activities.
Community-based facilities (include for example, guest Lectures , internship , field studies)	• Scientific Videos. • Site visits

16. Admissions	
Pre-requisites	**Architectural Designs**
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 Email: eng.ameera.jaleel@uobabylon.edu.iq Name: Mahmood Amer Chabuk e-mail: eng.mahmood.aa@uobabylon.edu.iq **Mijed Abbas Abd Al-Najar** Arch. Engr. Dept. College of Engineering University of Babylon **Seraj Jabbar Kadhum Al-Murshedy** Arch. Engr. Dept. College of Engineering University of Babylon Email: eng.seraj.jabar@uobabylon.edu.iq

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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			
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. 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. 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. The main goal is to asset a strong base for the architectural student to maintain the design process.			

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			
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.			

Contact

Program Manager:
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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			
Architecture & 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 & contemporary philosophy . in its term students will study the relation between philosophy and aesthetics . the relation between philosophy , conceptions , values and architectural topic.			

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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			
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.			

Module 44

Code	Course/Module Title	ECTS	Semester
UOBAB0106103	Thesis		
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/w)**
Description			

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.

تعليم الطالب المعماري أصـــول العمل التصـــميمي والانتماء للمكان وارتباطه بالقيم والجذور العميقة لبلده وأمته ومجتمعه وتقاليده وثقافته.

2. Developing the student's ability and skill in expressing and translating the values through his design project.

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

4. Develop the student's ability and skill by defining a clear approved curriculum based on documentation, data collection and scientific analysis

Name: Asst.Prof.Ameera Jaleel Ahmeed

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	Architectural Engineering Department (ARC)
3. Course title/code & Description	Thesis
4. Programme(s) to which it Contributes	Architectural Engineering (ARC)
5. Modes of Attendance offered	**The program:** Design thesis projects, detail drawings and models.
6. Semester/Year	1st & 2nd semester /Academic Year 2024-2025
7. Number of hours tuition (total)	120 hrs. / 8 hrs. per week for 1st semester & 270 hrs. / 18 hrs. per week for 2nd semester
8. Date of production/revision of this specification	Oct. –10 / 2024

9. Aims of the Course

The aim

- 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 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 forth 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

j. Examinations, Tests, and day sketches.
k. Student Engagement during Lectures.
l. Responses obtained from Students, questionnaire about.
m. Curriculum and Faculty Member (Instructor).
n. 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)	• Available websites related to the subject. Extracurricular activities.
Community-based facilities (include for example, guest Lectures , internship , field studies)	• Scientific Videos. Site visits
16. Admissions	
Pre-requisites	
Minimum number of students	70
Maximum number of students	75
17. Course Instructors	***Instructor:*** **Lecturer:** **Ameera Jaleel Ahmed Al-Esawy** Arch. Engr. Dept. College of Engineering University of Babylon Email: eng.ameera.jaleel@uobabylon.edu.iq Name: Mahmood Amer Chabuk e-mail: eng.mahmood.aa@uobabylon.edu.iq **Mijed Abbas Abd Al-Najar** Arch. Engr. Dept. College of Engineering University of Babylon **Seraj Jabbar Kadhum Al-Murshedy** Arch. Engr. Dept. College of Engineering University of Babylon Email: eng.seraj.jabar@uobabylon.edu.iq

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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			
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. 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			

Contact

Program Manager:
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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			
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			

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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			
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.			

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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.

1. Teaching Institution	College of Engineering University of Babylon
2. University Department/Centre	Architectural Department
3. Course title/code & Description	**Profession Practice** The subject aims to identify the student with the basics of profession practice and the duties of the architectural engineer

4. Programme(s) to which it Contributes	Architecture engineering
5. Modes of Attendance offered	Semester system
6. Semester/Year	2nd / Academic Year 2024-2025
7. Number of hours tuition (total)	20 hrs. /2hrs. per week
8. Date of production/revision of this specification	Oct. – 10 / 2024

9. Aims of the Course

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	**Theoretical Content**
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