University of Mosul
College of Engineering

Guide of Department of Architecture Engineering

9 الصناعة والابتكار والبنية التحتية

2025 Edition

Uomosul.edu.iq/engineering/ Iraq-Mosul-Al Majmoaa Street

College of Engineering

INTRODUCTION

The Department of Architecture at the Faculty of Engineering at Mosul University is an important engineering department that contributes to the community's provision of scientific and engineering expertise Since its founding in 1978 and the commencement of the study in its corridors through a 45-year career to date, it has not failed in scientific giving and community service in various fields, Through the creation and development of experienced and competent engineering personnel capable of contributing actively to the development of society and advancing our country's progress in physical and related parts.

Graduates of the Faculty of Architectural Engineering at the University of Mosul have shown that they can take responsibility in various areas of reconstruction by contributing to the various reconstruction activities experienced in our country providing advice and scientific theory or applied expertise. It caters to the needs of society and helps public institutions expand and diversify their expertise.

The department focuses on a clear research curriculum and its academic curriculum with the aim of contributing to the revival of science and engineering courses. Desired national development as part of the approach of Mosul University and College of Engineering in achieving the goals of sustainable development in various areas of life.

In this context this guide aims to explain the admissions departments study approach and policy in a clear way when communicating with applicants to the Faculty of Engineering at the University of Mosul.

2024-2025

Department Management

Assist. Prof. Dr. Omar Hazim Ahmed Kharofa

- Head of Architecture Engineering Department
- Sustainable Architecter

Assist. Lecturer – Adil Khalil Qasim

- Coordinator of Architecture Engineering Department
- Architecter and Environment

Department Laboratories

Computer lab 1

- **Laboratory Responsible (Engineer :Heba Essam)**

Computer lab 2

- **Laboratory Responsible (Engineer Othman Auf, Engineer Steve Raad)**

Vision:

The Department of Architecture at the University of Mosul is a leading school of architecture that contributes to the cities sustainability by contributing to building a unique identity for the local urban environment by emulating local and international counterparts through its skills and expertise. Goals are achieved as part of being sexually targeted. The combination of originality and modernity Sustainable development based on ancient cultural heritage is pursued as a solid intellectual reference for urban sustainability and respect for international quality standards in accordance with modern scientific and technological developments.

Mission:

The mission of the Department of Architecture is to complement the Faculty of Engineering and the University of Mosul by providing advanced higher education in various disciplines at all levels to produce more effective graduates who can contribute to the advancement of science. Community Economics and Science. Public: In addition to adhering to mental and professional ethical values Creating a stable environment for learning and intellectual creativity Respecting human rights Providing academic glide paths that contribute to the optimal use of environmental protection technologies and promoting the production of creative research is Providing the public with knowledge and technical advice Enhancing community institutions. Contributing actively to the community and providing building scientists capable of carrying out reconstruction work to the community and providing technical advice to meet community needs. On the one hand the adaptation of the city of Mosul and the development of Iraq with the times by preserving the cultural identity and values attached to the expression of ideas originating from the depths of the civilization of this ancient country. And the spirit and potential of the technology required. Moreover, we live in an era of technological revolution and technological progress is accelerating in various fields of life.

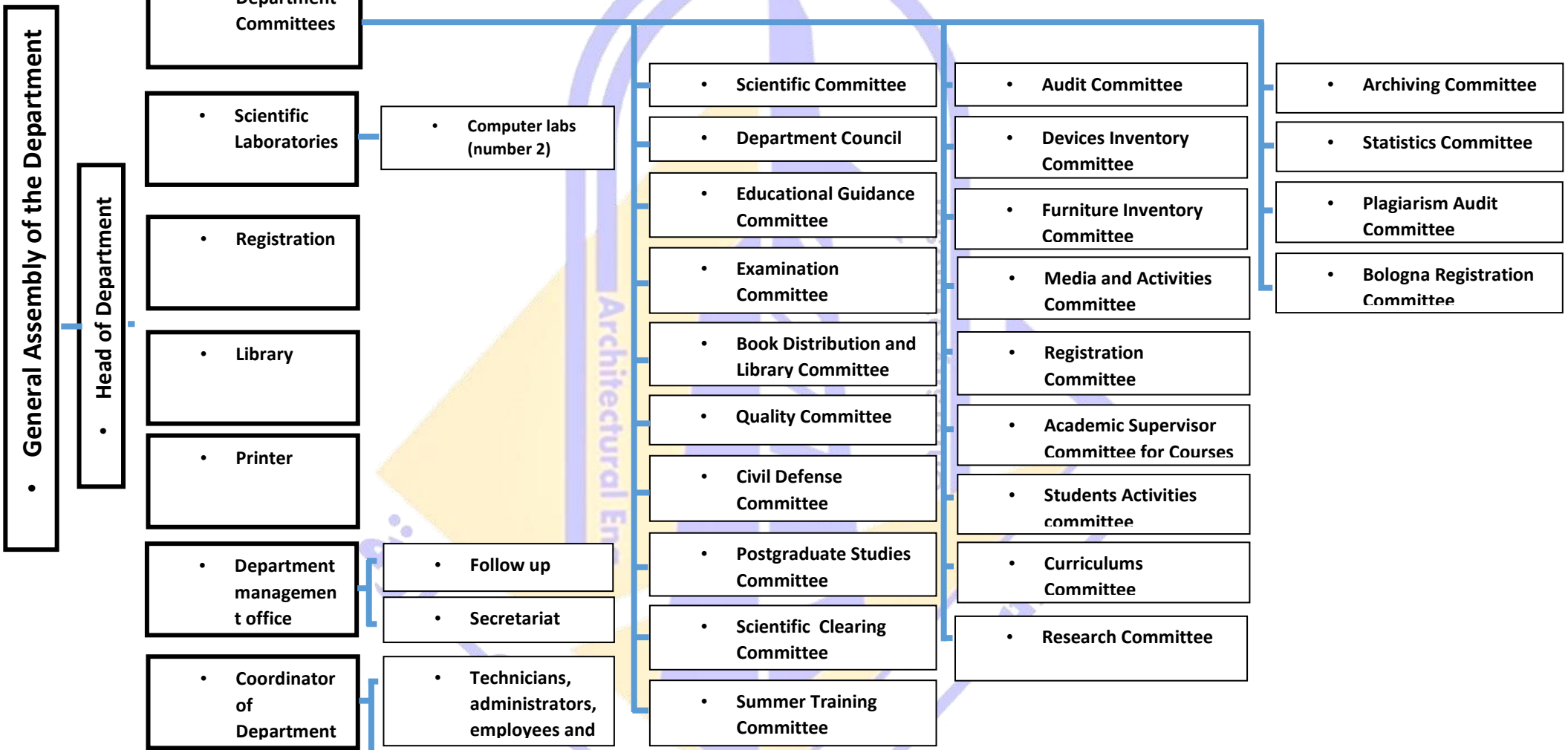
Goals:

The strategic goals of the Department of Architecture are aligned with the vision of the University of Mosul and the Faculty of Engineering with a focus on playing a leading role in the engineering education process and producing an experienced generation capable of taking on responsibilities in and outside Iraq. Strive to achieve the goal of sustainable national development by promoting community service through various educational means and promoting the desired progress of full national awakening through sound scientific research. This is achieved through:

1. **Preparation of qualified personnel in various fields of knowledge as per high quality specifications.**
2. **Promote scientific research in theoretical and applied sciences to promote trends related to development programs monitor global scientific developments and project future trends.**
3. **Continued development of introductory and advanced courses in line with contemporary developments in methodology and technical understanding**
4. **Participation in community service by developing direct and continuous contact with national institutions for scientific advice and continuing education programs**
5. **Integrating architecture with various fields of engineering and building relationships with them as a basis for renaissance**
6. **Emphasize the role of architecture in building society and restoring the human environment.**
7. **Creation of a staff of architecture graduates and methods in accordance with scientific laws in the protection of heritage and inheritance in the field of architecture and urban planning in urban design and interior and Landscape design.**
8. **Implement a clear practical program focusing on sustainable technology details in line with developments in the developed world by providing a rules-based construction education program based on modern techniques in engineering and technology.**
9. **Focus on the quality of academic courses in architecture through ongoing renewal of specialization course selection and preparation of self-evaluation reports aimed at academic accreditation.**
10. **Strengthen the faculty of the Department of Architectural Engineering and increase the ratio of PhD degree holders compared to master's degree holders.**

11. **Interested in designing applied and applied scientific research projects to develop partnerships and relationships with recognized institutions and universities.**
12. **Support the departments mission by developing the skills and abilities of alumni developing continuing professional education and maintaining relationships with them.**

During the academic year students of the Faculty of Architectural Engineering prepare to practice engineering by acquiring knowledge and vocabulary from approved academic vocabulary to study architectural engineering related to various fields of knowledge as follows:


General Assembly of the Department
Head of Department
Department Committees
Scientific Laboratories
Computer labs (number 2)
Registration
Library
Printer
Department management office
Follow up
Secretariat
Coordinator of Department
Technicians, administrators, employees and
Student Affairs
Scientific Committee
Department Council
Educational Guidance Committee
Examination Committee
Book Distribution and Library Committee
Quality Committee
Civil Defense Committee
Postgraduate Studies Committee
Scientific Clearing Committee
Summer Training Committee
Audit Committee
Devices Inventory Committee
Furniture Inventory Committee
Media and Activities Committee
Registration Committee
Academic Supervisor Committee for Courses
Students Activities committee
Curriculums Committee
Research Committee
Archiving Committee
Statistics Committee
Plagiarism Audit Committee
Bologna Registration Committee

Responsibilities

Head of Department : managing the department in terms of scientific, administrative, educational, cultural, financial, technical and student affairs, supervising the teaching process and teaching methods, preparing quarterly and annual scientific reports on the department's activities and submitting them to the dean, forming committees in the department, distributing duties to department members according to what the department's interests dictate, and issuing administrative orders to that effect.

Department Coordinator: Distributing lessons to faculty members, following up on student absences, daily status of student absences, following up on scientific seminars in the department.

Department Council: The Council participates with the Department Head in supervising the progress of the educational process and the progress of work in the department and following up on the implementation of the scientific plan and the plan to develop the academic and educational administrative cadres.

Scientific Committee and Postgraduate Studies Committee: The committee participates with the head of the department in all scientific decisions related to curricula and their development, reviewing academic promotions for faculty members, and obtaining research and assignments. It also deals with everything related to postgraduate students, from determining the admission examination committee for studies, preparing student discussion committees, considering postgraduate students' extension requests, naming the professor supervising the postgraduate student, and the comprehensive examination for students.

Quality Committee: **Disseminating the culture of quality and supporting related activities by applying quality standards in all aspects of work to improve the outcomes of the educational and pedagogical process. As well as supervising academic evaluation and accreditation activities, supporting continuous improvement and development of quality, following up on the preparation of descriptions and reports of the academic department's programs. Following up on the preparation of descriptions and reports of academic courses, and statistics in the department. Carrying out other tasks assigned to the unit in relation to quality and its application.**

Examination Committee: **Taking care of following up on the semester, mid-year and final exams for students, organizing the supervision schedules and distributing supervisors to the halls, receiving the exam questions and exam results from the instructors and working on organizing them and maintaining their confidentiality, conducting statistics on the final results and determining the success rates and failure rates for the students taking the exams, while following up on organizing the exam process for the students taking the supplementary exams.**

Audit Committee: **Its work coincides with the work of the examination committee in the department during examinations and the announcement of results, as its members audit the grades received from the instructors and the grades recorded on the grade cards and audit the examination results before announcing them to the students.**

Graduation Projects Committee: **Taking suggestions from lecturers regarding graduation projects. After organizing and presenting them to students, students are selected for the projects. The project is approved based on several criteria, and then announced to the students. This is followed up on and committees are formed to discuss the graduation projects.**

Continuing Education and Seminars Committee: Follows up on the continuing education courses conducted by the department's instructors for engineering staffs in the governorate's various departments, and the seminars and conferences held by the department.

Guidance Committee: Meeting with students to identify the problems and obstacles that students encounter from an academic perspective and preparing a report on that.

Summer Training Committee: Preparing official books for third-stage student training in government departments, following up on students, and receiving reports on students who have completed training.

Media Committee: Concerned with covering the various scientific and social events held by the department through photos and explanatory publications.

Book Distribution Committee: Distributing books to students at the beginning of the academic year and receiving books at the end of the year, organizing lists of books borrowed by faculty, staff and all postgraduate students.

Schedules Committee: The members of this committee prepare the lecture schedules for undergraduate and postgraduate students for the two semesters of each academic year.

Archiving Committee: It electronically archives completed master's and doctoral theses in all specializations in the department, in addition to graduation projects for higher diploma students in all branches and fourth-year students.

Inventory Committee: Inventory of furniture and equipment available in all department rooms and laboratories.

Social Solidarity Committee: Follows up on the social cases of the department's students and also members who have an economic or social situation that requires assistance.

Registration Committee: Receives and registers new students at the beginning of each new academic year, and also registers students' direct enrollment for all academic levels, while following up on students' cases during the academic year, including transfer, hosting, postponement, etc., and preparing lists of students for all levels and according to the classrooms.

Department Management Office: Registering incoming official letters, then distributing outgoing mail from the department head and recording who distributed the mail, exporting official letters, following up on unanswered official letters, organizing incoming and outgoing letters in files that are easy to search.

Printer: Printing official books, recording daily absences, issuing a monthly schedule of student absence rates, receiving e-mail and sending it to the department's management office.

Library: Receiving master's theses electronically and in paper form from recently graduated students, organizing work in borrowing master's theses and books, as well as scientific laser discs for programs.

Teaching staff

SY	Name	Academic Title	Email
1	Dr.Ahmed Abdulwahid Dhannoon Taha	Ass. Professor	ahmadabdulwahid@uomosul.edu.iq
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Teaching staff

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Department Building

The Architectural Engineering Department of Mosul University is one of the eight scientific departments of the Faculty of Engineering established and started in 1978-1979 and the first group of the department graduated in 1982-1983 with a 5-year study period. Higher studies of the department started in 1996-1997 with the inauguration of Masters degree and continued till the current year 2023-2024. In addition to the scientific and educational activity of the department it actively contributes to the realization of a large number of projects and construction projects in the city of Mosul and beyond by providing consultancy in other fields at the university level and abroad. The department has also participated in numerous local architecture competitions and international seminars. In the academic year 2023-2024 the department now has a teaching staff of 58 people to cover micro-disciplines in the disciplines of architectural engineering including some engineers. And the department continues to provide its services through modern laboratories and events that meet the needs of students through a new department building last year under the supervision of the staff and the dean of the engineering faculty and the dean of Mosul University.

Facility Details - Architecture Department

Facility Type	Quantity	Area (square meters)
Department Administration	6	160
Tiered Lecture Hall	1	170
Lecture Rooms	7	520
Studios	11	1370
Computer Labs	2	180
3D Printing Room	1	30
Library	1	82
Quality Committee Office	1	30
Examination Committee	1	70
Graduate Studies Committee	1	30
Faculty Lounge	1	82
Service Spaces	4	94
Restrooms	13	180
Faculty Offices	25	628

Architectural Eng. University of Mosul

Department Laboratories

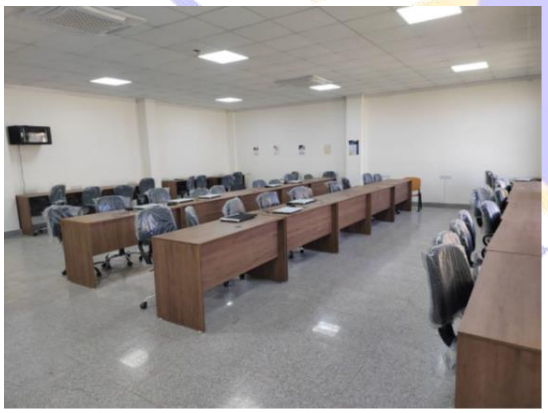
The Architecture Engineering Department has two computer laboratories that are used for undergraduate students (first, second, third, and fourth).

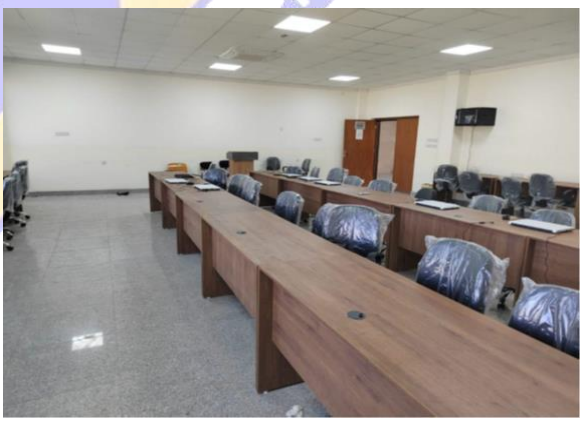
Computer Lab 1

A laboratory with a capacity of 35 students, containing 10 laptops, and dedicated to giving the following lectures:

1. The first stage - computer basics.
2. The second stage - architectural drawing by computer.
3. The third stage - architectural rendering by computer.
4. The fourth stage - integration of engineering systems.

However, the number of computers is insufficient compared to the number of students, so we rely on students' personal computers for applications.

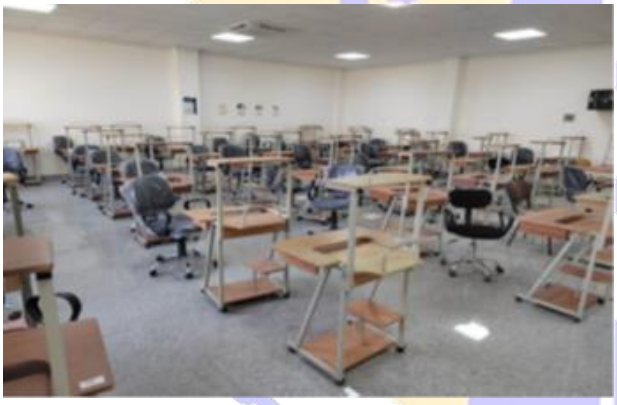


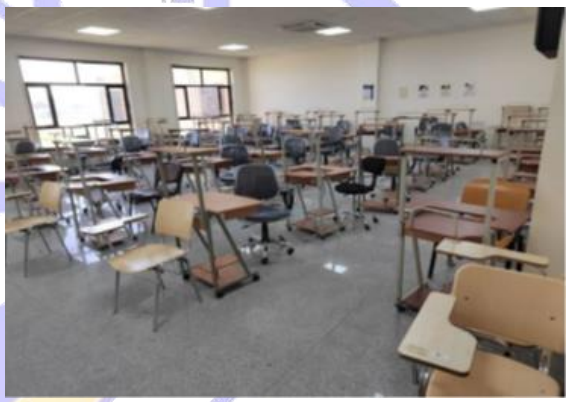


Computer Lab 2

The laboratory has a capacity of 40 students, but it lacks computers and relies on students' personal computers for applications. It is dedicated to giving the following lectures:

1. **The first stage - computer basics.**
2. **The second stage - architectural drawing by computer.**
3. **The third stage - architectural rendering by computer.**
4. **The fourth stage - integration of engineering systems.**





University of Mosul/ College of Engineering/Department of Architecture Engineering

First and Second Stage

2024-2025

Republic of Iraq - Ministry of Higher Education and Scientific Research
University of Mosul
Bachelor's degree in Architectural Engineering (First cycle)
Five years (Ten semesters) - 300 ECTS - Each 1 ECTS = 25 hr
Program Curriculum (2023 - 2024)

جمهورية العراق - وزارة التعليم العالي والبحث العلمي
جامعة الموسل
بكالوريوس في هندسة العمارة (الدورة الأولى)
خمس سنوات (عشرة فصول دراسية) - ٣٠٠ وحدة اوربية - كل وحدة اوربية = ٢٥ ساعة
المنهاج الدراسي للعام ٢٠٢٤-٢٠٢٥

Level	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w) CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)	Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s) Code
UGI	One	1	ARC 111	Architecture Design and Graphic (1)	التصميم والرسم المعماري (١)	English	2			6			3	123	177	300	12.00	C	
		2	ARC 112	Descriptive geometry & Engineering Drawing	الهندسة الوصفية والرسم الهندسي	English	1			3			3	63	87	150	6.00	S	
		3	ARC 113	Art & Architecture	الفن والعمارة	English	2						3	38	62	100	4.00	C	
		4	ARC 114	Mathematics (1)	الرياضيات (١)	English	2	2			1		3	78	22	100	4.00	B	
		5	UOM 1011	Arabic Language (1)	اللغة العربية (١)	Arabic	2						3	33	17	50	2.00	B	
		6	UOM 1040	Democracy & Human Rights	الديمقراطية و حقوق الإنسان	Arabic	2						3	33	17	50	2.00	B	
						Total	11	2	0	9	1	0	18	363	387	750	30.00		

Level	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w) CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)	Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s) Code
UGI	Two	1	ARC 121	Architecture Design and Graphic (2)	التصميم والرسم المعماري (٢)	English	2			6			3	123	177	300	12.00	C	
		2	ARC 122	Free Hand Drawing (1)	الرسم الحر (١)	English	1			3			3	63	62	125	5.00	S	
		3	ARC 123	Construction and Building Materials	الإنشاء ومواد البناء	English	2			1			3	48	52	100	4.00	C	
		4	ARC 124	Mathematics (2)	الرياضيات (٢)	English	2	2			1		3	78	22	100	4.00	B	
		5	UOM 1031	computer literacy (1)	حاسوب (١)	English	2		2				3	63	12	75	3.00	B	
		6	UOM 1021	English Language (1)	اللغة الإنكليزية (١)	English	2						3	33	17	50	2.00	B	
						Total	11	2	2	10	1	0	18	408	342	750	30.00		

Level	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w) CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)	Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s) Code
UGII	Three	1	ARC 211	Architecture Design (1)	التصميم المعماري (١)	English	2			8		1	3	153	147	300	12.00	C	
		2	ARC 212	History of Ancient Architecture	تاريخ العمارة القديمة	English	2						3	33	42	75	3.00	C	
		3	ARC 213	Building Construction	انشاء المباني	English	2		2				3	63	37	100	4.00	B	
		4	ARC 214	Graphic and Architectural Presentation	الرسم والإظهار المعماري	English	1			3			3	63	12	75	3.00	S	
		5	ARC 215	Computer Architectural Drawing 2D	الرسم المعماري والحاسوب ٢D	English	1		3				3	63	37	100	4.00	C	
		6	UOM 2050	Crimes of Ba'ath Regime in Iraq	جرائم نظام البعث في العراق	Arabic	2						3	33	17	50	2.00	B	
		7	UOM2022	English Language (2)	اللغة الإنكليزية (٢)	Arabic	2						3	33	17	50	2.00	B	
						Total	12	0	5	11	0	1	21	441	309	750	30.00		

Level	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w) CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)	Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s) Code
UGII	Four	1	ARC 221	Architecture Design (2)	التصميم المعماري (٢)	English	2			8		1	3	153	147	300	12.00	C	
		2	ARC 222	Free Hand Drawing (2)	الرسم الحر (٢)	English				4			3	63	12	75	3.00	S	
		3	ARC 223	Physics	الفيزياء	English	2		2				3	63	37	100	4.00	C	
		4	ARC 224	Computer Architectural Drawing 3D	الرسم المعماري والحاسوب ٣D	English	1		3				3	63	12	75	3.00	B	ARC 215 Computer Architectural Drawing 2D
		5	ARC 225	Science of Mechanics	علم الميكانيك	English	2						3	33	42	75	3.00	C	
		6	UOM 2032	computer literacy (2)	حاسوب (٢)	English	2		2				3	63	12	75	3.00	B	
		7	UOM 2012	Arabic Language (2)	اللغة العربية (٢)	Arabic	2						3	33	17	50	2.00	B	
						Total	11	0	7	12	0	1	21	471	279	750	30.00		

Level	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w) CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)	Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s) Code
UGIII	Five	1	ARC 311	Architecture Design (3)	التصميم المعماري (٣)	English	2			8		1	3	153	147	300	12.00	C	
		2	ARC 312	Working Drawings (1)	الرسوم التنفيذية (١)	English	1			3			3	63	12	75	3.00	C	
		3	ARC 313	Computer Rendering Techniques	تقنيات الإظهار والحاسوب	English	1			2			3	48	27	75	3.00	C	ARC 225 Computer Architectural Drawing 3D
		4	ARC 314	Principles of Housing	مبادئ الإسكان	English	2						3	33	42	75	3.00	C	
		5	ARC 315	Reinforced Concrete Design	تصاميم الخرسانة المسلحة	English	2						3	33	42	75	3.00	S	
		6	ARC 316	Architectural Physics	الفيزياء المعمارية	English	2		2				3	63	12	75	3.00	B	
		7	ARC 317	History of European Architecture	تاريخ العمارة الأوربية	English	2						3	33	42	75	3.00	C	
						Total	12	0	2	13	0	1	21	426	324	750	30.00		

Level	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w) CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)	Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s) Code
UGIII																			

	Six	1	ARC 321	Architecture Design (4)	التصميم المعماري (٤)	English	2			6		1	3	153	147	300	12.00	C	
		2	ARC 322	Survey and Architectural Documentation	المساحة و التوثيق المعماري	English	2			2			3	63	37	100	4.00	S	
		3	ARC 323	Physics Laboratory	معامل الفيزياء	English	1		2				3	48	52	100	4.00	C	
		4	ARC 324	Engineering Services (1)	الخدمات الهندسية (١)	English	2						3	33	42	75	3.00	S	
		5	ARC 325	Working Drawings (2)	الرسوم التنفيذية (٢)	English	1			3			3	63	37	100	4.00	C	
		6	ARC 326	Principles of Planning	مبادئ التخطيط	English	2						3	33	42	75	3.00	S	
						Total	10	0	2	13	0	1	18	393	357	750	30.00		

Level	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w) CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)	Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s) Code
UGIV	Seven	1	ARC 411	Architecture Design (5)	التصميم المعماري (٥)	English	2			6		1	3	153	147	300	12.00	C	
		2	ARC 412	Interior Design	التصميم الداخلي	English	1			4		1	3	78	72	150	6.00	C	
		3	ARC 413	Theories of Architecture	نظريات العمارة	English	2						3	33	42	75	3.00	C	
		4	ARC 414	Steel Design	تصاميم الفولاذ	English	2				2		3	63	37	100	4.00	S	
		5	ARC 415	Building Techniques	تقنيات البناء	English	2						3	33	42	75	3.00	S	
		6	ARC 416	Engineering Services (2)	الخدمات الهندسية (٢)	English	2						3	33	17	50	2.00	E	
						Total	11	0	0	12	2	2	18	393	357	750	30.0		

Level	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w) CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)	Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s) Code
	Eight	1	ARC 421	Architecture Design (6)	التصميم المعماري (٦)	English	2			6		1	3	153	147	300	12.00	C	
		2	ARC 422	Regional Contemporary Architecture	العمارة الإقليمية المعاصرة	Arabic	2						3	33	42	75	3.00	C	
		3	ARC 423	Theories of Urban Design	نظريات التصميم العمراني	English	2						3	33	42	75	3.00	C	
		4	ARC 424	Science of Statistics	علم الإحصاء	English	2	2					3	63	37	100	4.00	B	
		5	ARC 425	Landscape Design	تصميم الفضاءات الخارجية	English	1			4			3	78	47	125	5.00	C	
		6	ARC 426	Design Methodology and Programing	برمجة ومنهجية التصميم	English	2						3	33	42	75	3.00	C	
						Total	11	2	0	12	0	1	18	393	357	750	30.0		

Level	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w) CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)	Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s) Code
UGIV	Nine	1	ARC 511	Graduation Project (1)	مشروع التخرج (١)	English	2			6		4	3	123	77	200	8.00	C	
		2	ARC 512	Architectural Conservation	الحفظ المعماري	English	2						3	33	42	75	3.00	C	
		3	ARC 513	Estimation and specification	التخمين والمواصفات	English	2						3	33	42	75	3.00	S	
		4	ARC 514	Computer Aided Design Methods	مناهج التصميم بمساعدة الحاسوب	English	2						3	33	42	75	3.00	C	
		5	ARC 515	Urban Design	التصميم الحضري	English	2			6		2	3	153	97	250	10.00	C	ARC 423 Theories of Urban Design
		6	ARC 516	Smart Building Systems	انظمة البناء الذكي	English	2						3	33	42	75	3.00	E	
						Total	12	0	0	14	0	6	18	408	342	750	30.0		

Level	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w) CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)	Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s) Code
UGIV	Ten	1	ARC 521	Graduation Project (2)	مشروع التخرج (٢)	English	2			6		4	3	153	222	375	15.00	C	ARC 511 Graduation Project (1)
		2	ARC 522	Ethics and Proffecinal Practice	أخلاقيات وممارسة المهنة	Arabic	2						3	33	42	75	3.00	S	
		3	ARC 523	Islamic Architecture	العمارة الإسلامية	English	2						3	33	42	75	3.00	C	
		4	ARC 524	Projects Management	إدارة مشاريع	English	2						3	33	42	75	3.00	S	
		5	ARC 525	Sustainable Architecture	العمارة المستدامة	English	2						3	33	42	75	3.00	C	
		6	ARC 526	Architectural Details	تفاصيل معمارية	English	2						3	33	42	75	3.00	E	
						Total	12	0	0	6	0	4	18	318	432	750	30.0		
						Total	113	6	18	114	4	17	189	4014	3486	7500	300.0		Must be 300 ECTS

Note: The student should complete 4 weeks of Summer Internships to fulfill the requirements of the Bachelor's degree

Structured SWL (hr/w) type		Module type			SWL:	Student Workload
CL	Class Lecture		B	Basic learning activities	SSWL:	Structured SWL
Lab	Laboratory		C	Core learning activity	USSWL:	Unstructured SWL
Pr	Practical Training		S	Suport or related learning activity		
Tut	Tutorial		E	Elective learning activity		
Lect	Online lecture					
Semn	Seminar					

Note: Columns O, Q and R are programmed, protected and should not be edited

University of Mosul – College of Engineering – Department of Architecture Engineering
Second-Year Curriculum under the Semester System for the Academic Year 2024-2025/ First semester

Course Name	Theoretical Hours	Practical Hours	Credits	Course Code	Notes
Architectural Design 2	2	8	6	ARC211	Annual
Hand Drawing 3	-	4	2	ARC212	
History of Ancient Architecture	2	-	2	ARC214	
Computer-Aided Drawing 1	1	2	2	ARC215	
Building Construction 1	1	2	2	ARC216	
English Language (Below Intermediate)	2	-	2	UoM212	
Engineering Mechanics	2	-	2	SUR218	
Principles of Statistics and Applications	2	-	2	MAT213	
Surveying	1	2	2	SUR218	
Total	13	18	22	-	

University of Mosul – College of Engineering – Department of Architecture Engineering
Second-Year Curriculum under the Semester System for the Academic Year 2024-2025/Second semester

Course Name	Theoretical Hours	Practical Hours	Credits	Course Code	Notes
Architectural Design 2	2	8	6	ARC211	Annual
Shading and Perspective	1	3	2	ARC223	
History of European Architecture	2	-	2	ARC224	
Computer-Aided Drawing 2	1	2	2	ARC225	
Building Construction 2	1	2	2	ARC226	
Principles of Housing	2	-	2	AR227	
Strength of Materials	2	-	2	STR227	
Materials Testing Laboratory	1	2	2	STR222	
Islamic Arts (Elective)	2	-	2	ARC228	
Architecture and Human Sciences (Elective)	2	-	2	ARC229	
Total	14	17	22	-	

University of Mosul – College of Engineering – Department of ArchitectureEngineering
Third-Year Curriculum under the Semester System for the Academic Year 2024-2025/ First Semester

Course Name	Theoretical Hours	Practical Hours	Credits	Course Code	Notes
Architectural Design 3	2	8	6	ARC311	Annual
Engineering Services (Sanitary)	2	-	2	ARC312	
History of Islamic Architecture	2	-	2	ARC314	
Computer Visualization Techniques	1	2	2	ARC315	
Working Drawings 1	1	4	3	ARC316	
Principles of Urban Planning	2	-	2	ARC317	
Architectural Conservation Methods	2	-	2	ARC313	
Reinforced Concrete Structures (1)	2	2	2	STR317	
English Language (Above Intermediate)	2	-	2	UOM312	
Total	16	14	23	-	

University of Mosul – College of Engineering – Department of Architecture Engineering
Third-Year Curriculum under the Semester System for the Academic Year 2024-2025/ Second Semester

Course Name	Theoretical Hours	Practical Hours	Credits	Course Code	Notes
Architectural Design 3	2	8	6	ARC311	Annual
Engineering Services (Lighting)	2	-	2	ARC322	
Architectural Documentation	1	2	2	ARC324	
Advanced Computer Applications	2	2	3	ARC325	
Working Drawings 2	1	4	3	ARC326	
Logic and Design Methodology	2	-	2	ARC327	
Architecture and Acoustics	2	-	2	ARC328	
Reinforced Concrete Structures (2)	2	-	2	STR327	
Total	14	16	22	-	

University of Mosul – College of Engineering – Department of Architecture Engineering
Fourth-Level Curriculum According to the Semester System for the Academic Year 2024-2025/First Semester

Course Name	Theoretical Hours	Practical Hours	Credits	Course Code	Notes
Architectural Design 4	2	10	7	ARC411	Annual
Architectural Theories (1)	2		2	ARC414	
Interior Design	1	4	3	ARC415	
Urban Design Theories	2	2	3	ARC416	
Architectural Space Programming	2		2	ARC417	
Sustainable Architecture	2		2	ARC418	
Steel Structures	2		2	STR417	
Total	13	16	20		

University of Mosul – College of Engineering – Department of Architecture Engineering
Fourth-Level Curriculum According to the Semester System for the Academic Year 2024-2025/Second Semester

Course Name	Theoretical Hours	Practical Hours	Credits	Course Code	Notes
Architectural Design 4	2	10	7	ARC411	Annual
Engineering Services (Air Conditioning)	2		2	ARC422	
Architectural Theories (2)	2		2	ARC424	
Contemporary Regional Architecture	2		2	ARC425	
Outdoor Space Design	1	4	3	ARC426	
Architectural Safety	2		2	ARC427	
Advanced Construction Techniques	2		2	STR417	
Total	13	14	20		

University of Mosul – College of Engineering – Department of Architecture Engineering
Fifth-Level Curriculum According to the Semester System for the Academic Year 2024-2025/First Semester

Course Name	Theoretical Hours	Practical Hours	Credits	Course Code	Notes
Graduation Project	2	12	8	ARC511	Annual
Urban Design	2	10	7	ARC516	
Estimation and Technical Specifications	2		2	ARC517	
Total	6	22	17		

University of Mosul – College of Engineering – Department of Architecture Engineering
Fifth-Level Curriculum According to the Semester System for the Academic Year 2024-2025/Second Semester

Course Name	Theoretical Hours	Practical Hours	Credits	Course Code	Notes
Graduation Project	2	12	8	ARC511	Annual
Architectural Design Software	2		2	ARC525	
Behavior and Professional Practice	2		2	ARC527	
Architectural Criticism Theories	2		2		
Total	8	12	17		

University of Mosul – College of Engineering – Department of Architecture Engineering
Third -Level Curriculum According to the Course system for the Academic Year 2024-2025/ First Semester

Third -Level / First Semester									
اسم المتطلب	نوع المتطلب (اجباري - اختياري)	اسم المقرر		عدد الساعات النظرية	عدد الساعات العملية	عدد الوحدات	الممهد ان وجد	رمز المقرر	الملاحظات
		باللغة العربية	باللغة الانكليزية						
متطلبات الكلية	اختياري	مباديء التصميم الهندسي	Principles of Engineering Design	2	-	2		ENGE337	إجباري لطلبة القسم
	اجباري	التصميم المعماري 5	Architectural Design (5)	1	8	5	التصميم المعماري (4)	ARC341	
متطلبات القسم	اجباري	الرسوم التنفيذية(1)	Working Drawings (1)	1	4	3	تركيب المباني(3)	ARC342	
	اجباري	خدمات المباني(1)	Building Services (1)	2	-	2	-	ARC343	
	اجباري	الخرسانة المسلحة (1)	Reinforced Concrete	1	2	2	-	ARC344	
	اجباري	مباديء التخطيط	Principles of Planning	2	-	2	-	ARC345	
	اجباري	تقنيات الاظهار المعماري بالحاسوب	Computer Aided Architectural Presentation	1	2	2	-	ARC346	
			مجموع الساعات	10	16	18			

University of Mosul – College of Engineering – Department of Architecture Engineering
Third -Level Curriculum According to the Course system for the Academic Year 2024-2025/Second Semester

Third -Level / Second Semester

اسم المتطلب	نوع المتطلب (اجباري -اختياري)	اسم المقرر باللغة العربية	اسم المقرر باللغة الانكليزية	عدد الساعات النظرية	عدد الساعات العملية	عدد الوحدات	الممهد ان وجد	رمز المقرر	الملاحظات
متطلبات الكلية	اختياري	اللغة الانكليزية -المتوسط	English Language - Intermediate	2	-	2			
	اجباري	التصميم المعماري 6	Architectural Design (6)	1	8	5	التصميم المعماري (5)	ARC347	
متطلبات القسم	اجباري	تاريخ العمارة(2)	History of Architecture (2)	2	-	2	-	ARC348	
	اجباري	خدمات المباني(2)	Building Services (2)	2	-	2	-	ARC350	
	اجباري	الخرسانة المسلحة (2)	Reinforced Concrete (2)	1	2	2	الخرسانة المسلحة(1)	ARC349	
	اجباري	الرسوم التنفيذية (2)	Working drawings (2)	-	4	2	-	ARC351	
	اجباري	منطق ومنهجية التصميم	Design Logic &Methodology	1	-	1	-	ARC352	
	اختياري	التشريعات العمرانية	Architectural legislations	2	-	2		ARC363	يختار الطالب مقرر واحد ، عدد الوحدات المطلوبة 2 وحدة
		نظام التحكم البيني	Environmental Control Systems					ARC362	
	اختياري	تطبيقات التخطيط والاسكان	Planning Applications and Housing	1	2	2	مبادىء التخطيط	ARC361	يختار الطالب مقرر واحد ، عدد الوحدات المطلوبة 2 وحدة
			مجموع الساعات	11	14	18			

Postgraduate studies
Curriculum / Architectural Engineering / master's degree/ First Semester

SY	Code	Course Name	Course Type	Credits	Hours
1		Advanced Architectural Theory	Theoretical	3	
2		Urban Design Theories	Theoretical	3	
3		Islamic Architecture	Theoretical	3	
4		Research Methodology	Theoretical	2	
5		English Language	Theoretical	2	
Total				13	

Postgraduate studies
Curriculum / Architectural Engineering / master's degree/ Second Semester

SY	Code	Course Name	Course Type	Credits	Hours
1		Architecture and Environment	Theoretical	2	
2		Architecture and Technology	Theoretical	2	
3		Methods of Analysis	Theoretical	2	
4		Artificial Intelligence	Theoretical	2	
5		Research Writing Methods	Theoretical	1	
6		Advanced Architectural Design	Theoretical + Practical	4	
Total				13	

Research Directions/Aspects Considered in Department of Architecture Engineering

The main research lines in Architecture Engineering are:

Architectural Design:

- **A Process-Centered Research such as: Design Methodologies, Design Strategies, Design techniques, Digital Design, etc.**
- **A Designer or User-Centered Research such as: Design Thinking, Creativity and Cognition, etc.**
- **A Building-Centered Research such as: Building Typologies, Post-occupancy Evaluation Studies, etc.**
- **Design Education Research.**

History and Theory of architecture:

- **Researches Approach in Theory of Architecture Deals with many topics; Changing Theories according to Architectural approaches that appeared in Architectural discourse during the last two centuries, the formal phenomena as a reflection of recent movements, the evolution of practicing Architecture, and identifying the causes, nature and pattern of these changes.**
- **The research on history and theory of architecture includes a wide range of fields related to architecture and its design and planning characteristics within ancient, historical, Islamic and contemporary periods and eras.**

It deals with all types of buildings, their styles, components, space organization, shapes of plans, and the relationship between Form and function, all aspects related to construction, and the quality of building materials and construction systems used, the nature and types of decoration and ornamentation, as well as the study of interior designs, outdoor spaces, and landscapes designs, and intellectual concepts reflected in the designs of each architectural period.

Landscape architecture:

- Research in Landscape architecture involves the design, planning, management, and nurturing of the built and natural environments. Planting design, Landscape Ecology, Landscape Archaeology, Cultural Landscape, green infra structure, Urban open space.

Interior architecture:

- Research in the theoretical aspects placed in interior design, what distinguishes interior design theory from architecture theory or design theory? Defining contemporary positions in interior design theory.
- Interior design research related to feminine materials or finishing and furniture materials, and what are their characteristics of those elements in the reflection of the spirit of the place and the identity of the space?
- Research in the theoretical frameworks of adaptation in interior design within the types of buildings that require little or limited structural changes to the current building.

- **Research in sustainability interior design, interior design is a multidisciplinary practice concerned with creating a set of interior environments that express the identity and spirit of a place through the manipulation of spatial size, and the placement of specific elements, such as furniture and surface treatment.**
- **Research in the internal architectural elements that affect human psychology and knowledge of behavior, and the level of awareness of the importance of this relationship is the primary preliminary factor, such as identity, privacy, safety impacts, health concerns, degree of accessibility.**

Sustainable architecture:

- **Study architecture that continues through time and extends for the longest possible period with an increase in the life span of the building at all levels, functionally and structurally.**
- **Reducing the use and waste of energy and other resources, with the necessity to make optimal use of what is available from them and build a healthy environment inside and outside the buildings according to correct considerations**
- **Recycling of materials and making use of self-help methods in building construction while preserving the aesthetics of the building from the inside and outside visually and functionally.**
- **Keeping up with technology and taking advantage of its opportunity**
- **Create a new generation of environmentally friendly and environmentally friendly buildings.**

Urban design:

- The scientific approach covers theoretical studies that reflect different worldwide experiences, whether within the historical or modern urban fabric, their methods and techniques of dealing with them. While scientific studies work on utilizing the results of the basic theoretical topics in applied research to resolve specific real problems and by employing mechanisms, technologies and software specialized in this field, with seeking to develop the researcher's professional training skills.

Housing and Urban Planning:

- This scientific approach deals in housing with research in the basic characteristics of local housing design, both in its theoretical aspect concerned with the structural, functional and formal properties of local housing and its contemporary development as an expressive part of the contemporary life cultural identity of the local community at the level of Iraq and the city, or in its practical aspect, which deals with the mechanisms of developing and evaluating the housing design reality locally within the fields that meet the various basic needs of housing and residents by appropriate employment of economic, social, psychological and environmental influences that drive residential design.
- In urban planning, researches focuses on the local planning characteristics, whether in their traditional characteristics or in their contemporary development within the various planning elements and components of the city.

University of Mosul
College of Engineering

This guide has been prepared under the guidance of the Dean of the College of Engineering

Professor Dr. Abdul Rahim Ibrahim Jassim

Under the supervision of the Head of the Architecture Engineering Department

Assistant Professor

Dr. Omar Hazim Ahmed Kharofa

To serve as a reference for introducing the Department of Architecture Engineering, its members, and the study programs for undergraduate and graduate studies

coordination

Department of Media and Government Communication at the College of Engineering

2025 Edition