

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



# **Academic Program and Course Description Guide**

**2024**

## Academic Program Description Form

**University Name:** University of Mosul

**Faculty/Institute:** College of Engineering

**Scientific Department:** Architecture Engineering Department

**Academic or Professional Program Name:** Bachelor / Architecture Engineering

**Final Certificate Name:** Bachelor of Science in Architecture Engineering

**Academic System:** Bologna process – semester – courses

**Description Preparation Date:** 3/20/2024

**File Completion Date:** 3/20/2024

Signature:

Head of Department Name:

**Dr. Ayman T. Hamid**

Date:

Signature:

Scientific Associate Name:

**Dr Omar H. Kharofa.**

Date:

**The file is checked by:**

**Department of Quality Assurance and University Performance**

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

**Date:**

**Signature:**

**Approval of the Dean**

## 1. Program Vision

The vision is that the Architecture Department of Mosul University will be a distinctive architectural school that will emulate its local and international counterparts. through its potential and expertise, By contributing to the building of a clear identity of the local urban environment, the goals of urban sustainability are achieved as part of the desired sustainable development through the compatibility of authenticity and modernity and based on ancient cultural assets as a solid intellectual reference while keeping abreast of modern scientific and technical developments worldwide by adopting the concepts of urban sustainability and adherence to international quality standards.

## 2. Program Mission

- The Department of Architecture's mission complements the mission of the Faculty of Engineering and Mosul University by offering high-quality educational programs in various disciplines and at all levels. These programs aim to qualify highly competent graduates capable of contributing to the cognitive, economic, social, and scientific development of society, while adhering to ethical and professional values.
- The department seeks to create a stable learning environment that supports intellectual creativity and respects human rights, while preserving the environment and optimizing the employment of modern technology. The Department also ensures the provision of qualified academic staff and technical advisory services to enhance the performance of society's institutions.
- The department works to produce creative research that contributes to building the knowledge society and supports the community with

architectural engineering cadres qualified to contribute to reconstruction projects. It also provides engineering advisory services that meet the needs of the community and contribute to the development of the city of Mosul and the whole of Iraq.

- The department seeks to preserve the cultural identity and authentic values by offering ideas derived from the country's long history, with compatibility with the requirements of modern times and rapid technological progress in various areas of life.

### **3. Program Objectives**

- - Preparing qualified cadres in various fields of knowledge in accordance with high quality standards.
- – Promoting scientific research in theoretical and applied sciences, encouraging initiatives related to development programmed and ensuring that global scientific developments are kept abreast and planning.
- – Continuous development of the curriculum at the undergraduate and postgraduate levels, commensurate with recent scientific, methodological, and technical developments.
- – Participation in the service of the community through continuous interaction with state institutions and the provision of scientific consultations and the promotion of continuing education programmed.
- – Linking architecture to other engineering disciplines and developing relations with them, as an essential part of society's renaissance.

- – Emphasizing the role of architecture in building society and improving people's environment.
- - Preparation of architectural graduates in accordance with scientific rules to enable them to practice the profession efficiently in architectural and urban design and planning of cities and indoor and outdoor spaces, as well as preservation of heritage and monuments according to scientific methods.
- – Implementation of clear practical programmed on sustainability technology and standards of architectural beauty, while keeping pace with the development in the developed countries by providing an architectural educational programmed based on modern techniques in the engineering and technical fields.
- – Focus on the quality of the architecture's educational process through the selection of specialized and continuously modern curricula and the completion of self–assessment reports with a view to obtaining academic accreditation.
- – Empowering teaching staff in the Department of Architecture Engineering by increasing the proportion of doctoral holders compared to the master's campaign.
- – Interest in applied scientific research and design of applied projects to strengthen partnerships and relationships with prestigious institutions and universities.

- – Developing graduate skills by providing specialized continuing education courses and maintaining communication with them to enhance the achievement of the department's mission.

#### 4. Program Accreditation

Not yet

#### 5. Other external influences

Doesn't have

#### 6. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	6	15	8%	Basic course
College Requirements	3	6	4%	Basic course
Department Requirements	65	127	88%	Basic course
Summer Training	Exist			
Other				

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

7. Program Description				
Year/Level	Course Code	Course Name	Credit Hours	
			Theory	Practical
2023 – 2024 / First level / Bologna Process	ARC111	Architecture Design and Graphic	2	6
	ARC112	Descriptive geometry & Engineering Drawing	1	3
	ARC113	Art & Architecture	2	
	ARC114	Arabic Language	2	
	ARC115	Mathematics (1)	2	2
	ARC116	Democracy and human rights	2	
	ARC121	Architecture Design and Graphic	2	6
	ARC122	Free hand drawings	1	3
	ARC123	Construction and Building Materials	2	1
	ARC124	computer literacy		2
	ARC125	Mathematics (2)	2	2
	ARC126	English language – Beginner		2
2023 – 2024 / Second stage / Semester	ARC 211	Architectural Design 2	2	8
	ARC 212	Free hand Drawing 3		4
	ARC 214	History of Ancient Architecture	2	
	ARC 215	Computer Architectural Drawing 2D	1	2
	ARC 216	Building construction 1	1	2
	UoM 212	English language – Pre-Intermediate	2	

	<b>STR 217</b>	Engineering Mechanics	<b>2</b>	
	<b>SUR 218</b>	Surveying	<b>1</b>	<b>2</b>
	<b>MAT 213</b>	Principles and applications of statistics	<b>2</b>	
	<b>ARC 223</b>	Shadows & Perspectives	<b>2</b>	<b>8</b>
	<b>ARC 224</b>	History of European Architecture	<b>1</b>	<b>3</b>
	<b>ARC 225</b>	Computer add design 2	<b>2</b>	
	<b>ARC 226</b>	Buildings Constructions (2)	<b>1</b>	<b>2</b>
	<b>ARC 227</b>	Housing Principles	<b>1</b>	<b>2</b>
	<b>STR 227</b>	Strength of Materials	<b>2</b>	
	<b>STR 222</b>	Materials Test Laboratory	<b>2</b>	
	<b>ARC 228</b>	Islamic Arts (Elective)	<b>1</b>	<b>2</b>
	<b>Arch 229</b>	Architecture and humanities (optional)	<b>2</b>	
<b>2023 – 2024 / 3rd stage / Courses</b>	<b>ENGE337</b>	Principles of Geometric design	<b>2</b>	
	<b>ARC 341</b>	Architectural design 5	<b>1</b>	<b>8</b>
	<b>ARC 342</b>	working drawing 1	<b>1</b>	<b>4</b>
	<b>ARC 343</b>	Building services 1	<b>2</b>	
	<b>ARC 344</b>	Reinforced Concrete 1	<b>1</b>	<b>2</b>
	<b>ARC 345</b>	Principles of Planning	<b>2</b>	
	<b>ARC 346</b>	Computer Aided Architectural Presentation	<b>1</b>	<b>2</b>
		English Language – Intermediate	<b>2</b>	
	<b>ARC347</b>	Architectural Design (6)	<b>1</b>	<b>8</b>
	<b>ARC348</b>	History of Architecture (2)	<b>2</b>	
	<b>ARC349</b>	Reinforced Concrete (2)	<b>1</b>	<b>2</b>



	<b>ARC350</b>	Building Services (2)	<b>2</b>	
	<b>ARC351</b>	Working drawings (2)		<b>4</b>
	<b>ARC352</b>	Design Logic & Methodology	<b>1</b>	
	<b>ARC361</b>	Planning Applications and Housing	<b>1</b>	<b>2</b>
	<b>ARC362</b>	Environmental Control System	<b>2</b>	
	<b>ARC363</b>	Architectural Legislations	<b>2</b>	
<b>2023 -2024 / 4th stage / Courses</b>	<b>ENAR-401</b>	Architectural Design	<b>2</b>	<b>10</b>
	<b>ENAR-402</b>	Interior Design	<b>1</b>	<b>3</b>
	<b>ENAR-403</b>	Landscape Design	<b>1</b>	<b>3</b>
	<b>ENAR-404</b>	Islamic Architecture	<b>2</b>	
	<b>ENAR-405</b>	Advanced Building Techniques	<b>2</b>	
	<b>ENAR-406</b>	Theories of Architecture	<b>2</b>	
	<b>ENAR-407</b>	Housing	<b>2</b>	
	<b>ENAR-408</b>	Theories of Urban design	<b>2</b>	
	<b>ENAR-409</b>	Architecture & climate	<b>2</b>	
	<b>ENAR-410</b>	Architecture Acoustic	<b>2</b>	

	<b>ENAR-411</b>	Programming Architectural Spaces	<b>2</b>	
	<b>ENAR-412</b>	Design of Steel structures	<b>2</b>	
<b>5<sup>th</sup> stage courses 2024</b>	<b>ENAR-501</b>	Thesis (2)	<b>2</b>	<b>14</b>
	<b>ENAR-502</b>	Urban and Architectural Design	<b>2</b>	<b>10</b>
	<b>ENAR-503</b>	Thesis (1)	<b>2</b>	<b>6</b>
	<b>ENAR-504</b>	Architectural Criticism Theories	<b>2</b>	
	<b>ENAR-505</b>	Contemporary Iraqi Architecture	<b>2</b>	
	<b>ENAR-506</b>	Contemporary Arab Architecture	<b>2</b>	
	<b>ENAR-507</b>	Specifications & Estimation	<b>2</b>	
	<b>ENAR-508</b>	Professional Practice	<b>2</b>	

## 8. Expected learning outcomes of the program

### Knowledge

**A1**– The basic, applied and engineering science principles necessary to provide architecture specialization, such as mathematics, stereotyping, physics, engineering drawing, statistics, computer techniques and automation.

**A2.** Specialized architecture sciences cover various aspects of architectural design, implementation, construction, executive drawings, architectural and free drawing, as well as interior design, outdoor space design, urban design, and city planning. Architecture is concerned with many aspects and interacts with many sciences and contributes to important applications in everyday life.

**A3.** Professional objectives and supporting foundations: Supporting skills include application within theoretical frameworks, such as reporting and research, as well as knowledge of economic, legal, health, social and security determinants.

### Skills

**1b.** Design skills: Capability to create innovative and sustainable architectural designs, including interior design and design of outdoor and urban spaces.

**2b.** Research and analysis skills: developing research and information collection and analysis skills for application in design projects, including environmental, economic, and social considerations.

**3.b.** Communication and collaboration skills: Enhance effective communication and teamwork skills with classmates and specialists in multiple areas, including writing reports and presenting ideas clearly and convincingly.

### Ethics

**C1** Creativity and Innovation: Enhancing the values of creativity and innovation in the design and research process, contributing to the development of innovative and sustainable architectural solutions.

C2 Social and environmental responsibility: Promote awareness of the architect's social and environmental responsibility and ensure the application of sustainable development principles in design and construction projects.

### **9. Teaching and Learning Strategies**

Theoretical lectures that provide basic and specialized knowledge in architecture engineering.

- Practical applications in ceremonies and laboratories, where students apply theoretical concepts and acquire practical skills.
- Discussions and dialogues that encourage exchange of ideas and promote critical thinking and analysis.
- Investing advanced computer technologies and technical means, enhancing students' learning and providing them with modern tools for design and research.

### **10. Evaluation methods**

- Quarterly and final examinations to assess students' understanding of courses and curricula.
- Short examinations to measure students' uptake of subjects periodically.
- Practical tests that allow students to apply the concepts and skills acquired in a practical environment.
- Open debates that allow students to engage in dialogue and exchange ideas to assess their understanding and ability to analyse and criticize.

11. Faculty					
Faculty Members					
Academic Rank	Specialization	Special Requirements/ Skills		The number of teaching staff	
				Staff	Lecturer
Assist. Professor	Arch. Engineering			10	
Lecturer	Arch. Engineering			21	
Assist. Lecturer	Arch. Engineering			17	

## Professional Development

### Mentoring new faculty members

Teaching methods workshops

Training courses

Continuing education workshops

Scientific seminars, workshops, and seminars

### Professional development of faculty members

The academic programmed is developed through the implementation of thoughtful plans aimed at improving the realities of the educational programmed according to a clear curriculum. These plans include:

- Developing teaching staff: Providing training and continuous development opportunities for faculty members to increase their efficiency and develop their teaching and research potential.
- Attention to the curriculum and its theoretical and applied tools: periodically updating the curriculum to ensure that it is kept up to date with the latest scientific and technical developments and providing sophisticated educational tools commensurate with students' needs.
- Successfully engaging with students: focusing on developing communication skills between faculty members and students, listening to students' needs, and providing them with the necessary support, which contributes to improving the learning experience.
- Evaluation of educational outcomes: accreditation of students as a key tool for evaluating educational outcomes through their performance and academic progress, and the positive results they can achieve for the benefit of the educational institution and society.

Through these steps, the quality of the academic program is improved and its role in meeting the needs of students and society is enhanced.

## 12. Acceptance Criterion

Standard admission approved by Ministry of Higher Education and Scientific Research

## 13. The most important sources of information about the program

- Laws and Instructions
- See the latest updates and guidance
- Open up to and keep abreast of corresponding programmed.

## 14. Program Development Plan

A plan to develop the academic programmed of the Architecture Engineering Department at Mosul University requires setting clear goals and vision and developing strategic steps to achieve those goals. This plan includes the following elements:

1. Assessment of the current situation: analysis of the current academic programmed to identify strengths, weaknesses, opportunities, and challenges.
2. Setting development goals: setting clear development goals for the program, such as improving the quality of teaching, promoting scientific research, and increasing students' participation in academic activities.
3. Curriculum update: Review and update the curriculum to be compatible with the latest scientific and technological developments in the field of architecture.
4. Developing teaching staff: Providing training and development opportunities for faculty members to improve their teaching and scientific research skills.
5. Improving infrastructure: investing in improving educational facilities, laboratories, and resources to provide a modern and stimulating learning environment.

6. Strengthening partnerships: forging partnerships with other industrial and academic institutions to promote knowledge and experience sharing and provide training opportunities for students.

7. Encourage scientific research: support applied scientific research and collaborate with third parties to provide opportunities for students and faculty members to participate in research projects.

8. Performance appraisal: Developing mechanisms to regularly evaluate academic programmed performance, including assessment of students, graduates, and faculty.

9. Student participation: Encouraging students' participation in the programmed development process through questionnaires and discussions to identify their needs and suggestions.

10. Continuous communication: Continue to communicate with the graduates of the department to see how they benefit from the program and how it can be improved.

By implementing these steps, a comprehensive plan can be developed to develop the academic program of the Architecture Engineering Department at Mosul University and achieve high quality educational goals. Based on the results of the analysis of the data, the head of the department is informed of the proposals and recommendations reached by the faculty.



