**-Ministry of Higher Education & Scientific Research**

**Architecture Department**

# Self-Assessment Report

Organizational Structure

**Department**

**council**

**Head of the**

**Department**

**Secretary**

**Department**

**Coordinator**

**Examination**

**Committee**

**Scientific**

**Committee and**

**other committees**

**Dean**

**Employes**

|  |  |
| --- | --- |
|   | Committee Name |
| 1  | Scientific and Graduate Affairs Committee |
| 2  | Examination Committee |
| 3  | Inventory Committee |
| 4  | Summer Industrial Training Committee |
| 5  | Quality Assurance Committee |
| 6  | Register of Students Committee |
| 7  | The Absent Students Committee |
| 8  | Quality and self-assessment Committee |
| 9  | Educational guidance Committee |

## Program Options

The department grants a bachelor's degree in architectural engineering, and there are no graduate programs. Obtaining the Bachelor certificate takes place after passing the five academic years, by attending lectures, preparing project designs, participating in class activities, preparing theoretical reports, participating in systematic training programs, and succeeding in various tests and exams that take place throughout the academic year. The annual system was adopted in the architecture department.

## Program Delivery Modes

The academic program is delivered to the student through several practices, including :

* Every year, several engineering projects are assigned to the students to study, analyze, and design, as the size of the project gradually grows from the first stage to the fifth stage .
* Students are required to prepare reports on most academic subjects to learn the primary principles of scientific research.
* Develop training programs by putting the largest number of students in practical training in field trips to different work sites .

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# ACCREDITATION CRITERIA

## Criterion 1: Program Educational Objectives

**Department mission**

The department of architecture is looking forward to achieving distinguished education in planning, designing, and constructing a sustainable urban environment, and promoting scientific research. This will be reflected in how we teach our students to prepare them for professional practice. Investment in education has a great role in developing the country economically and socially and improving health and livelihoods. This effect will expand to improve our beloved city, Karbala, and Iraq in general.

**Department vision:**

The vision for the department of Architecture is to support our students, develop their leadership skills, and prepare them to form a specialized staff that can get involved in the government institutions where they can actively participate in developing the local and national communities and perform scientific research in various field.

 **Goals:**

1. Raising the department’s teaching profiles to create a qualified architectural staff who can keep pace with the global developments in architecture and invest it to promote Iraqi architectural values.
2. Laying the foundation stone to establish an Iraqi architectural school that brings its’ main inspiration and innovation from the architectural heritage of the Arabic world and Iraq in specific. The school’s vision is to reform the heritage in sophisticated and contemporary ways with solid historical roots and consolidation to serve the nation.
3. Keeping up with the advanced technologies in educational curricula and courses, especially in the field of computer programming, and advanced software for the application of building information modeling (BIM), and developing student’s skills in this field
4. Improving the knowledge about the importance of the place characteristic in urban planning of the city, urban fabric, urban design, human scale, and the importance of using local materials and techniques in construction industry.

## Criterion 2: Outcomes Graduate

2-1 Adopted Graduate Outcomes A- Program knowledge outcomes:

1. The ability to understand the essence of architecture science, which represents the interrelationship between the natural environment and architecture.
2. The ability to identify urban problems in cities and find solutions.
3. The ability to identify the concept of urban pollution.
4. The ability to study and discuss the development of architecture in both theoretical and practical aspects.
5. The ability to understand the various structural systems and to identify the characteristics and behavior of each system.
6. Develop and coordinate implementation of safety plans in construction sites; for example, accident prevention program, system safety engineering, accident/incident investigation, disaster control, and security.

B – Program practical outcomes:

1. Building and developing the student's expressive skills, and provide the required training to the implementation of various building techniques and using various building materials
2. The ability to work successfully within a team and set goals, manage procedures, and achieve goals within the professional ethical standards.
3. The ability to demonstrate the architectural design process in various techniques including free hand techniques and digital modeling.
4. The ability to design and analyze various types of facilities and projects.
5. Introducing students to building information modeling BIM.
6. Using engineering management methods to plan and implement engineering projects.
7. The ability to make the proper design decision according to a scientific basis
8. Building the ethics of the profession, explaining its beneficial value to society, and preparing the student for specialization to be practiced in the work field The graduates’ results are mentioned and documented on the website of the Department of Architecture.

## Criterion 3: Curriculum

### 3-1 Program Structure and Content

 3-1-1 Study Plan

The department grants a bachelor's degree in architectural engineering, and there are no graduate programs yet. Obtaining the Bachelor certificate takes place after passing the five academic years, by attending lectures, preparing project designs, participating in class activities, preparing theoretical reports, joining a systematic training program, and succeeding in various tests and exams that take place throughout the academic year. The annual system was adopted in the architecture department.

The department's undergraduate program spread over five years, as shown in the tables below.

|  |
| --- |
| **Curriculum Requirements for the FIRST YEAR**  |
| **Code**  | **Subject**  | **1st Semester**  | **2nd Semester**  | **Units** |
| **Hours/ week**  |
| **Theo.**  | **Prac****t.**  | **Theo.**  | **Prac****t.**  |
| ARC 101  | Architectural Design I  | -  | 12  | -  | -  | 10  |
| ARC 102  | Architectural Design II  | -  | -  | -  | 12  | 10  |
| ARC 103  | Architectural Drawing I  | -  | 3  | -  | -  | 3  |
| ARC 104  | Architectural Drawing II  |   |   | -  | 4  | 4  |
| ARC 105  | physics  | 3  | -  | -  | -  | 7  |
| ARC 106  | Mathematics I  | 3  | -  |   |   | 6  |
| ARC 107  | Mathematics II  | -  | -  | 3  | -  | 6  |
| ARC 108  | Computer Science  | 1  | 2  | -  | -  | 3  |
| ARS 109  | Advanced Computer Science  | -  | -  | -  | 2  | 2  |
| ARS 110  |  English Language  | -  | -  | 3  | -  | 3  |
| ARS 111  |  Arabic Language  | -  | -  | 2  | -  | 2  |
|   | **Total**  | **7**  |  | **17**  | **8**  |  | **18**  | **56**  |
|  | **24**  |  |  | **26** |  |

 **Table (3-1) Undergraduate program - First year**

 **Table (3-2) Undergraduate program - second year**

|  |  |  |
| --- | --- | --- |
|  | **Curriculum Requirements for the SECOND YEAR**  |  |
| **Code**  | **Subject**  | **1st Semester**  | **2nd Semester**  | **Units**  |
| **Hours/ week**  |
|  **Theo.**  | **Pract.**  | **Theo.**  | **Pract.**  |
| ARC 201  | Architectural Design  | 2  | 8  | 2  | 8  | 12  |
| ARC 202  | Architectural Graphic  | 1  | 2  | 1  | 2  | 4  |
| ARC 203  | Freehand Drawing  | 1  | 2  | 1  | 2  | 4  |
| ARC 204  | Buildings Construction I  | 2  | 2  | 2  | 2  | 6  |
| ARC 205  | Structures I  | 2  | -  | 2  | -  | 4  |
| ARC 206  | History of Iraqi Architecture  | 2  | -  | 2  | -  | 4  |
| ARS 207  | Architectural Graphic Design/ Software II  | 1  | 2  | 1  | 2  | 4  |
| ARC 208  | Logic and Design Methodology  | 2  | -  | -  | -  | 2  |
|  | **Total**  | **13**  | **16**  | **11**  | **16**  | **40**  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|   |  | **29**  | **27**  |  |

 **Table (3-3) Undergraduate program - Third year**

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| --- | --- | --- |
|  | **Curriculum Requirements for the THIRD YEAR**  |  |
| **Code**  | **Subject**  | **1st Semester**  | **2nd Semester**  | **Unit s**  |
| **Hours/ week**  |
|  **Theo.**  | **Pract.**  | **Theo.**  | **Pract.**  |
| ARC 301  | Architectural Design  | 2  | 10  | 2  | 10  | 14  |
| ARC 302  | Buildings Construction II  | 2  | 2  | 2  | 2  | 6  |
| ARC 303  | Structures II  | 2  | -  | 2  | -  | 4  |
| ARC 304  | Planning Principles  | 2  | -  | 2  | -  | 4  |
| ARC 305  | History of Architecture  | 2  | -  | 2  | -  | 4  |
| ARS 308  | Architectural Graphic Design/ Software III  | 1  | 2  | 1  | 2  | 4  |
| ARC 306  | Architectural Lighting  | 2  | -  | -  | -  | 2  |
| ARS 309  | Sanitary Services  | 2  | -  | -  | -  | 2  |
| ARC 307  | Preservation Methods  | -  | -  | 2  | -  | 2  |
| ARS 310  | Air-Conditioning Services  | -  | -  | 2  | -  | 2  |
|   | **Total**  | **15**  | **14**  | **15**  | **14**  | **44**  |
| **29**  |  | **29**  |  |

 **Table (3-4) Undergraduate program - Fourth year**

|  |  |
| --- | --- |
| **Curriculum Requirements for the FOURTH YEAR**  |  |
| **Code**  | **Subject**  | **1st Semester**  | **2nd Semester**  | **Unit s**  |
| **Hours/ week**  |
|  **Theo.**  | **Pract.**  | **Theo.**  | **Pract.**  |
| ARC 401  | Architectural Design  | 2  | 10  | 2  | 10  | 14  |
| ARC 402  | Landscape Architecture  | 1  | 3  | -  | -  | 2  |
| ARC 403  | Interior Architecture  | -  | -  | 1  | 3  | 2  |
| ARC 404  | Advanced Building Technology  | 2  | -  | -  | -  | 2  |
| ARC 405  | Housing Planning  | 2  | -  | -  | -  | 2  |
| ARC 416  | Housing  | -  | -  | 2  | -  | 2  |
| ARC 407  | Architectural Theory  | 2  | -  | 2  | -  | 4  |
| ARC 408  | Islamic and Arabic Architecture  | 2  | -  | 2  | -  | 4  |
| ARC 409  | Architecture and Built Environment  | 2  | -  | -  |  | -  | 2  |
| ARC 410  | Architectural Acoustic  | -  | -  | 2  |  | -  | 2  |
| ARC 411  | Urban Design Theories  | -  | -  | 2  |  | -  | 2  |
| ARS 412  | Survey  | 2  | 2  | -  |  | -  | 3  |
| ARS 413  | Geographical Information Systems (GIS)  | -  | -  | 2  |  | -  | 2  |
| ARC 414  | Advanced Construction  | -  | -  | 2  |  | -  | 2  |
|   | **Total**  | **15**  | **15**  | **17**  |  | **13**  | **45**  |
| **30**  |  | **30**  |  |

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| --- | --- | --- |
|  | **Curriculum Requirements for the FIFTH YEAR**  |  |
| **Code**  | **Subject**  | **1st Semester**  | **2nd Semester**  | **Units**  |
| **Hours/ week**  |
|  **Theo.**  | **Pract.**  | **Theo.**  | **Pract.**  |
| ARC 501  | Architectural Design  | 3  | 8  | -  | -  | 7  |
| ARC 502  | Thesis  | 2  | 7  | 3  | 15  | 16  |
| ARC 505  |  Specifications and Assessments  | 2  | -  | -  | -  | 2  |

 **Table (3-5) Undergraduate program - Fifth year**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ARC 507  | Professional Practice  | -  | -  | 2  | -  | 2  |
| ARC 504  | Architectural Design Theories  | 2  | -  | -  | -  | 2  |
| ARC 503  | Contemporary Architecture  | 2  | -  | 2  | -  | 4  |
| ARC 506  | Philosophy of Architecture  | -  | -  | 2  | -  | 2  |
|   | **Total**  | **11**  | **15**  | **9**  | **15**  | **35**  |
| **26**  |  | **24**  |  |