



University of Derna - Libya
Faculty of Art & Architecture



Architectural Engineering program

First\ Architecture Departments

○ First year general studies at the department of Architecture

This department functions as a foundational preparatory phase for architecture students. It provides a comprehensive curriculum of core courses that cover the fundamental principles across all architecture disciplines. This enables students to make an informed choice of specialization based on their skills and interests. The program also includes complementary art courses and general education requirements.

**All students must pass a general year before the choose from the three specializations;
The first year**

1 st Semester	2ed Semester
Basic of Design1	Basic of Design 2
Free hand drawing	Arts in Architecture
Architectural drawing	Architectural presentation
Materials science 1	Materials science 2
Engineering drawings & Geometry1	Engineering drawings & Geometry2
Technical writing in Arabic Language	Technical English terms
Mathematics	Physics

Established in 1991, the Department of Architectural Engineering has gained extensive experience, enabling it to be brilliant in both academic and practical areas. The curriculum has been developed in three phases by a distinguished team of seasoned faculty members, including experts from the local community as well as from neighboring Arab countries. This collaboration has enriched the program with a diverse blend of local and international knowledge and expertise.

Architectural Engineering focused on the design and construction of buildings. The discipline integrates various aspects of construction engineering, from architectural design to building execution. Graduates are expected to have a thorough understanding of all building components, including design, construction, ventilation, circulation, electrical systems, and plumbing.

Department Vision, Mission, and Objectives

Vision: The department aims to achieve the highest levels of competence, excellence, and creativity in both architectural education and professional practice after graduation.

Mission: To pursue continuous development and keep pace with all factors supporting the quality of higher education—both theoretical and practical—while responding to the evolving needs of society and the labor market.

Academic Program Objectives:

- Deliver an academic program that ensures competence, meets the quality standards of higher education in Libya, fosters creativity and excellence, and keeps pace with technological advancements.
- Architectural Engineer Qualification Objectives:
Prepare successful architectural engineers based on four scientific pillars: understanding, creativity, adaptation to technological developments required by the labor market, and building general cultural awareness.
- Faculty Development Objectives:
Encourage faculty members to enhance their knowledge and scientific expertise and improve academic contributions through participation in local seminars and scientific conferences.
- Graduate Outcomes Objectives:
Produce graduates who meet the changing demands of the city's labor market and community needs.

Approved Courses in the Department

The courses in the Department of Architectural Engineering consist of mandatory core subjects that form the foundation of the specialization and fulfill the department's main objectives. These courses are divided into architectural courses, which constitute at least 60% of the total curriculum, and supporting engineering and general courses, which make up the remaining 40%.

The second year

3 rd Semester	4 th Semester
Architectural Design1	Architectural Design2
Shadows, Shading, and Perspective 1	Shadows, Shading, and Perspective 2
Buildings Construction1	2 Buildings Construction
Building Services 1 (Sanitation and Conditioning)	Buildings services2; Lighting & Acoustics
Engineering Mechanics &Solid Materials	Statistics
History of Architecture (Ancient& Medieval)	Architecture & climate
Architectural Models	Research Methodology
Summer training	

The third year

5 th Semester	6 th Semester
Architectural Design 3	Architectural Design 4
Construction Technology & working Drawings1	Construction Technology & working Drawings 2
Interior Design	Landscaping
Contemporary & Modern Architecture	Structural Analysis
Surveying 1	Surveying 2
Computer-aided design 1	Computer-aided design 2
Sustainable Architecture	Summer training

The fourth year

7 th Semester	8 th Semester
Architectural Design 5	Architectural Design 6
Urban Design	Housing
Local & Islamic Architecture	Theories of Architecture
Computer-aided design 1	Computer-aided design 2
Structural Design1(concrete)	Structural Design 2 (Steel)
History & Theory of planning	Graduation Research
\\\\\\	Summer training

The fifth year

9 th Semester	10 th Semester
Buildings Rehabilitation	Research and Practical Graduation Project
Design Methodology & Architectural Programming	\\
Estimation and Specifications	\\
Professional Practice and Project Management	\\
Research and Theoretical Graduation Project	\\