



---

## Contents

### **Introduction**

The role of engineers has become more important in our currently vastly developing societies. Engineers need to reach a significant caliber. This is due to their role in industrial units, organizations and companies and their need to cope with rapid successive technological developments.

In order to keep up with the progress and sustainability of scientific and research experiences to match global developments, the Faculty of Engineering, Alexandria University has developed an upgraded curriculum for Graduate Studies and Research enhancement based on the credit hour system, through providing advanced academic programs to match developments in different fields and to improve scientific and research experience in order to support the rapid pace of development worldwide.

### **Vision**

The Faculty of Engineering, Alexandria University aims to be a pioneer in engineering sciences on both the Middle Eastern and the African levels in education, scientific research and community service through the distinction of its faculty members and the availability of education and research programs and the exceptional resources related to the surrounding environment, specially the desert and the sea.

### **Mission**

Preparing outstanding cadres of specialists that are creative, innovative and capable of working cooperatively through education, learning, teaching, scientific research and knowledge exchange according to the best academic and professional standards in order to serve the needs of the local, national, and international societies and to encourage scientific and technical publishing while contributing in developing the knowledge capabilities of individuals and organizations and providing continuous education.

### **Goals**

- 1-Prepare graduates with a command of modern basic sciences, humanities and engineering sciences.
- 2-Produce the most comprehensively prepared graduates to deal with modern technologies capable of applying the state-of-art in information technology.
- 3-Prepare multidisciplinary graduates capable of interacting effectively with challenges and problem solving.



- 
- 4-Provide students with the linguistic capabilities to benefit from immensely growing global knowledge.
  - 5-Prepare distinguished graduates capable of presenting their ideas and interacting with the surrounding community.
  - 6-Prepare creative graduates capable of competing in the labor market in view of new and rapid developments.
  - 7-Prepare talented graduates capable of applying scientific, engineering methodology, analysis and deduction, and having the desire and capabilities for continuous education.
  - 8-Prepare scientific cadres of the highest academic and professional standards to conduct academic and applied research relevant to the different engineering disciplines.
  - 9-Participation in community services and environmental development by involvement in setting strategies and visionary initiatives needed for the continuing development of the surrounding society especially the sea and desert environments.

### **History of the Faculty of Engineering and its Scientific Departments**

- 1941** The Faculty of Engineering – Cairo University establishes its branch in Alexandria
- 1942** The issuance of law decree No. 32 for the year 1942 for founding Alexandria University.
- 1942** The inception of the education in the preparatory year and the first year (Architecture, Civil Engineering, Electrical Engineering and Mechanical Engineering)
- 1946** Establishing the Department of Sanitary Engineering and Municipalities
- 1953** Establishing the Department of Chemical Engineering
- 1960** Establishing the Departments of Mechanical Power Engineering and Weaving & Textile Engineering
- 1961** Establishing the Department of Naval Architecture and Marine Engineering
- 1963** Establishing the Department of Production Engineering
- 1964** Establishing the Department of Nuclear Engineering
- 1974** Establishing the Department of Computer Engineering and Automatic control

### **Scientific Departments**

- Architectural Engineering
- Structural Engineering
- Irrigation Engineering and Hydraulics
- Transportation Engineering



- 
- Sanitary Engineering
  - Mechanical Engineering
  - Production Engineering
  - Naval Architecture and Marine Engineering
  - Textile Engineering
  - Electrical Engineering
  - Computer and Systems Engineering
  - Nuclear and Radiation Engineering
  - Chemical Engineering
  - Engineering Mathematics and Physics