

Construction Engineering & Management

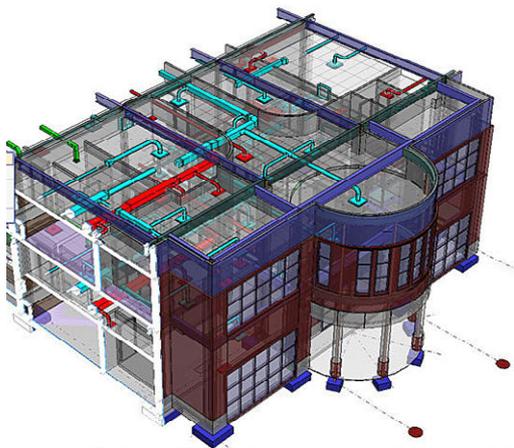
Credit Hour Program at Cairo University



The program provides the necessary knowledge and tools to manage the design, procurement, construction and operation of buildings, infrastructure systems and industrial facilities. Graduates of the program are well-positioned to become construction project managers and construction management consultants working for contractors, developers and owners of constructed facilities.

Key Features

- Close industry collaboration.
- Exposure to the construction industry in the MENA region through summer internships
- Prepares graduates to manage international construction projects
- Study complemented with business and management courses



Program Objectives

The main goal of the CEM Program is to provide a well-integrated program that gives the student the opportunity to develop the proficiencies necessary for a successful, professional career in the construction industry. In addition to exposure to courses in civil engineering and design, program graduates will develop knowledge and understanding of:

- develop management plans for construction projects.
- reviewing the contract strategies for construction projects and to investigate the appropriate contract forms and payment methods.
- planning and control project cost: including cost estimating, risk analysis, contingency, progress reporting, and value engineering.
- producing tender and contract documents along with the ability to carry out estimation of costs and expenditures during all project stages.
- carrying out appraisal of tenders and to negotiate with bidders
- supervising constructions projects and monitoring their progress
- measuring the executed work, and certify interim payments and final account.
- advising clients on settling claims and disputes
- handing over completed construction projects along with their designated maintenance and operational plans

For more information visit
<http://www.eng.cu.edu.eg/credithours>

Cairo University, Faculty of Engineering,
Giza, EGYPT

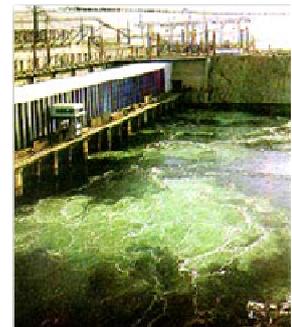
Water Engineering & Environment

Credit Hour Program at Cairo University



Water is life and is one of the most precious natural resources on earth. Population growth and aspiration for improved standards of living impose higher pressure on available water resources and environmental systems. This is particularly true for Egypt, most of the Arab countries, and many nations all over the globe where water demands exceed the supplies.

In 2009 a new B.Sc. Degree in Civil Engineering with emphasis on Water Engineering and Environment (WEE for short) was established at Cairo University. The program prepares graduates with specialized training in hydrology, water resources, hydraulics, irrigation/drainage, Water & Wastewater (collection, treatment & disposal), and coastal engineering among other subjects. Graduates of the program are well prepared to address critical environmental issues involving interconnection among earth, water, climate as well as the interaction between these applied sciences and the human activities.



Key Features

- the program adopts the two semester credit hour system.
- The study is fully in English. Extensive use of textbooks of international quality and IT facilities are encouraged in all courses.
- The education services are provided to small number of students. The numbers do not exceed 60 in a lecture, 30 in a tutorial and 15 for a laboratory.
- Egyptian students with cumulative GPA of 3.0 or higher are exempted from tuition and fees through scholarships provided by the Ministry of Water Resources & Irrigation and the Holding Company for Water & Wastewater.
- Compulsory courses in the water and environment areas include: Principles of Irrigation & Drainage, Fluid Mechanics, Water Chemistry & Microbiology, Open Channel Hydraulics, Computational Water & Wastewater networks, Introduction to Water Resources Engineering, Irrigation Design, River Engineering, Applied Hydrology, International Law of Water & Environment, Coastal & Harbor Engineering, Environmental Hydraulics, Field Measurements, EIA for Water Projects, On-Farm Irrigation Systems, and Integrated Water Resources Management.
- The program is supervised by the Department of Irrigation and Hydraulics with some 60 faculty members and 20 teaching assistants. Around 2/3 of the faculty members have obtained their PhD degrees from North American universities.



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Cairo University, Faculty of Engineering,
Giza, EGYPT

Structural Engineering

Credit Hour Program at Cairo University



The STE program provides a broad, well-rounded, and high-quality education in Civil Engineering with emphasis on the profession of Structural Engineering and its specific areas of materials, mechanics, analysis and design. By completing the bachelor degree requirements, the graduates of the STE program will demonstrate professional competence and contribute in the future efforts for developing and maintaining the infrastructure and environment at the national, regional and international dimensions.

Key Features

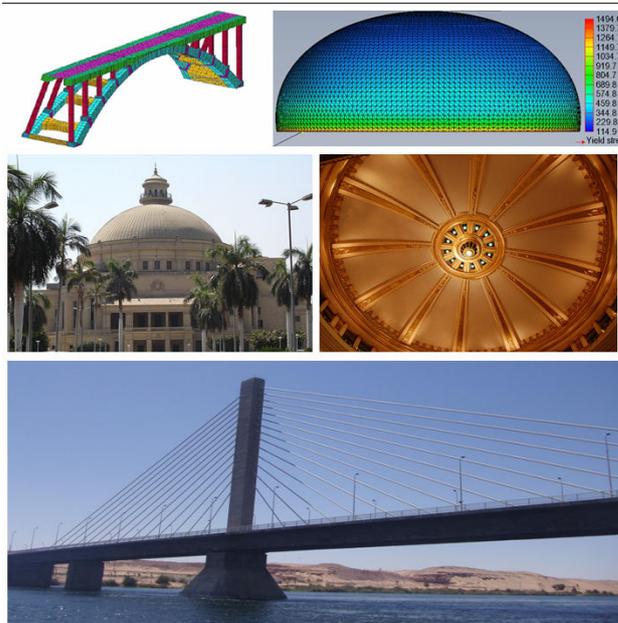
- A variety of elective courses for students to fit their selected plan of study.
- Core courses in Management, Accounting, and Marketing to supplement the engineering skills.
- Application of analysis and design software to solve practical structural engineering problems.
- Practical training opportunities in multinational design companies and consultancy firms.



Program Objectives

The educational objectives of the Structural Engineering program are to prepare its graduates to:

- Perform successfully in a professional environment by utilizing and improving their technical knowledge, intellectual abilities and practical skills.
- Design, construct and select effective civil and structural systems by applying the fundamental principles and methods of structural engineering, as well as the principles of sustainability.
- Formulate, analyze and solve complex structural engineering problems by examining and appraising practical alternatives and by working individually or within multidisciplinary teams.
- Plan, schedule and supervise diverse engineering projects by integrating project management, risk management, information technology, and professional skills.
- Communicate effectively in engineering and business environments, and present high ethical standards.
- Continue career development through life-long learning, professional seminars and licensure.



For more information visit

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Cairo University, Faculty of Engineering, Giza,
EGYPT