

ELECTRICAL ENERGY ENGINEERING [EEE]

Bachelor Programs, Credit Hours System, Cairo University, Faculty of Engineering



Industrial development, population growth, and demand for electrical energy cannot be achieved without well prepared expertise in Electrical Power Engineering, Computer and Electronics, and Industrial Applications. The goal of the EEE program is to provide the community with graduates capable of effectively using their scientific & technical knowledge in these areas for the betterment of the society. The program provides the highest standard of excellence in education while pursuing continuous quality improvement.

Key Features:

- Core courses in Management, Accounting, and Marketing to supplement the engineering skills.
- A variety of elective courses for students to fit their selected plan of study, with two distinct, yet equally challenging, tracks (1) Electrical Energy (2) Industrial Applications of Electrical Energy.
- Practical training opportunities in multinational design companies and consultancy firms.



For more information, visit:

eng.cu.edu.eg/en/credit-hour-system/

Cairo University, Faculty of Engineering, Giza,
Arab Republic of Egypt.

Program Objectives:

- The EEE Program offering education and develops experience in numerous topics in the areas of:
 - 1) Power engineering.
 - 2) Power electronics .
 - 3) Industrial automation including applied computer engineering and communications.
- By the end of the program, students are expected to gain deep knowledge & skill in the design & study of:
 - 1) Automated and intelligent energy systems.
 - 2) Electrical machine and drives.
 - 3) Electronic converters.
 - 4) Power Systems.
 - 5) Automatic control systems.
- The curriculum of the EEE program is also devoting special attention to issues that are capturing worldwide attention such as:
 - 1) Renewable energy.
 - 2) Smart Grid.
 - 3) Environmental impact of developments in electrical energy.
- The program includes courses to cope with well observed current graduate weaknesses such as marketing skills, legalities and communications skills.