



The goal of the program is to provide the community with graduates capable of effectively using relevant scientific and technical knowledge in digital healthcare. The program is designed to meet the growing demand for trained engineers who can apply the principles of engineering, health sciences, and business administration. These engineers effectively manage the physical, technological, and support services of healthcare facilities, in order to optimize the safety, quality, efficiency, accessibility, and cost effectiveness of healthcare delivery processes and healthcare systems. It centers on four main themes: healthcare facilities designing & planning, medical standards & accreditation, medical software, healthcare management and healthcare information systems.



Key Features:

The HEM program offers core courses related to the areas of Biomedical Engineering, management, industrial automation, as well as computer engineering and communications. It allows student to select elective courses to fit their desired specialty. Field training is mandatory to face the actual healthcare problems. By the end of the program, students are expected to gain deep knowledge and skills in Healthcare Engineering and Management, managerial systems for healthcare units, automation of healthcare systems and to be able to qualify healthcare units for national and international accreditation.



Program Objectives:

- To supply Healthcare sector with qualified engineers to fulfill national (and/or regional) strategic plans.
- To provide students the fundamental knowledge required for practicing high quality HEM.
- Program graduates are expected to serve in the following areas:
 - Designing modern healthcare facilities and hospitals, based on modern international standards & guidelines for designing, building & equipment supply for such facilities.
 - Building the underlying network and software infrastructure.
 - Management and decision-making support in healthcare facilities based on solid medical informatics infrastructure.

For more information, visit:

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

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