**Program Aims**

Due to the nature of Biomedical Engineering (BME) program at the faculty of Engineering and Technology in Egypt (FUE), it combines courses from the fields of electrical, electronics, mechanical, and chemical engineering as well as some medical course. The aim of the program is to provide graduate BM engineers equipped with both the theoretical and practical skills that make them capable of competing nationally and regionally in the job market. The program aims are:

* Acquire and apply new knowledge, and practice self, lifelong and other learning strategies.
* Apply engineering design processes to produce cost-effective solutions that meet specified needs of market with consideration for global, cultural, social, economic, environmental, ethical and other aspects.
* Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of biomedical engineering solutions in global, economic, environmental, and societal contexts.
* Communicate effectively – graphically, verbally and in writing – with a range of audiences using contemporary tools.

**Program Objectives**

The educational objectives for the Bachelor of Science in Biomedical Engineering program are:

* Graduates of the program have the ability to create innovative solutions to problems in the life sciences and clinical applications such as medicine, dentistry, nursing, and physical therapy.

Graduates of the program who enter the work force have the ability to succeed by:

* Being a productive member of an engineering team
* Demonstrating individual technical capability
* Developing a new biomedical device or process
* Generating high quality technical documentation
* Pursuing continuing education.