



საქართველოს ტექნიკური  
უნივერსიტეტი  
1922 წლიდან

## Bachelor's Educational Program Biomedical Engineering

### Faculty

Faculty of Informatics and Control Systems

### Program Supervisor/ Supervisors

Professor Irine Gotsiridze/ Professor Zviad Gurtskaia

### Qualification to be Awarded, and the Number of Credits in the Program

Bachelor of Sciences in Biomedical Engineering  
Will be awarded in case of passing main specialty (220 credits) and free components (20 credits) of educational program, no less than 240 credits.

### Program Educational Objectives

The undergraduate Biomedical Engineering Program Educational Objectives (PEO's) are that our alumni:

- will be engaged in professional practice as biomedical engineers and/or biomedical scientists in occupational settings involving human health and well-being (PEO 1),
- will advance in their professional careers (PEO 2)
- will engage in professional development, or post-graduate education, to continue theirself-development in biomedical engineering or other related fields (PEO 3)

### Student Learning Outcomes

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
3. an ability to communicate effectively with a range of audiences.
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

