STUDY PROGRAMMES IN ENGLISH

FACULTY OF BIOMEDICAL ENGINEERING CTU IN PRAGUE
The Faculty of Biomedical Engineering of the Czech Technical University in Prague focuses on technical, medical and managerial disciplines used in biomedical engineering, health informatics, medicine and population protection. It is located in Kladno (30 km from the capital city of Prague). For teaching and scientific activities, it has state-of-the-art laboratories and unique workplaces with modern facilities.

**TOP RESEARCH**

- Interaction between XUV radiation and biological objects
- Non-conventional ventilation methods and optimization of mechanical lung ventilation
- Nanocomposite and nanocrystalline materials for implantology and biomedicine
- Telemedicine systems for monitoring and supporting the treatment of diabetes patients
- Health technology assessment for medical devices
- Rehabilitation process quantification methods and systems
- Personal biotelemetry security systems for the Integrated Rescue System
STUDY PROGRAMMES IN ENGLISH

Bachelor's Degree Programme

Biomedical Technology

3 year programme
The graduates can work in medical establishments with medical instrumentation technology; they are also able to assist during examination of a patient by the medical imaging techniques as well as during other examinations which demand working with technology. The graduates can be employed not only as technical staff of medical establishments but also as technicians and managers of production, development and service medical companies. The study branch is accredited by the Ministry of Health of the Czech Republic and after completion of studies the graduates obtain the certificate of professional qualification to practice the profession of biomedical technician pursuant to sec. 20 of Act N. 96/2004 Coll.

Master's Degree Programmes

Biomedical and Clinical Engineering

2 year programme
The graduates will obtain an overview of biomedical and clinical technology in line with current developments in the field. In healthcare facilities, they will be able to operate, inspect and maintain diagnostic and therapeutic devices and their software, including assisting physicians in the examination of patients. They will be able to arrange activities related to documentation and operation of medical devices. The graduates will be able to participate in experimental development and research activities. They will find employment in institutions involved in the development, production, sale and servicing of medical devices or in the programming of diagnostic and therapeutic devices and methods intended for the healthcare sector.
Systematic Integration of Processes in Health Service  
2 year programme
The study is aimed at preparation of engineers for the organizationally-technical work in hospitals, hygienic stations, commercial sphere etc. Students of this branch will gain theoretical knowledge as well as practical experience not only in the technical, or more precisely the economic branches, but in necessary extent also in biology and medicine. This allows the graduates to communicate with both doctors and other mediinsurance companies. The study branch is accredited by the Ministry of Health of the Czech Republic and after completion of studies the graduates obtain the certificate of professional qualification to practise the profession of a Medical laboratory technician pursuant to sec. 9 of Act N. 96/2004 Coll.

Doctoral Degree Programme

Biomedical Engineering  
4 year programme
This is an interdisciplinary study branch focused on rapid development of modern technologically complicated devices for medicine and biology.

Courses for Erasmus+ and Exchange students taught in English

The faculty offers courses taught in English in the field of optics and optometry, physiotherapy, biomedical engineering and many other medical disciplines. The students can either take courses or can work on a project under the supervision of a CTU supervisor. The course offer for the respective academic year is available at fbmi.cvut.cz/courses.