



Politechnika Łódzka

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Organizational unit running the field of study:

Faculty of Electrical, Electronic, Computer and Control Engineering

Cycle of study:

First-cycle

Mode of study:

Full-time (degree programme)

Language of instruction:

Polish

Degree awarded:

Bachelor of Science

Duration of study:

3,5 years

Description of the field of study:

Biomedical engineering is an interdisciplinary field which includes medical informatics, (bio)medical electronics, biomechanical engineering and biomaterials engineering, among others, which is the reason why at Lodz University of Technology it is delivered by four faculties: the Faculty of Electrical, Electronic, Computer and Control Engineering, the Faculty of Mechanical Engineering, the Faculty of Material Technologies and Textile Design and the Faculty of Chemistry.

What is especially emphasized is the ability to use modern apparatus, diagnostic and therapeutic systems which use ICT, IT, electronic and material methods, techniques and technologies. Students also learn about the structure and properties of textronic biomedical systems used in medicine and telemedicine. They explore properties and structure of materials which can be used to produce devices and components in direct contact with organism cells. Students familiarize themselves with methods of design and manufacture of biomaterials, implants and artificial organs, and subsequently, they learn the methods to analyze their mechanical, physicochemical and biological properties as well as their applications to medicine.

Specializations:

- medical electronics and textronics
- biomaterials engineering

Graduate profile:

Graduates are qualified to perform engineering projects and research and development projects in interdisciplinary national and international teams. They can be employed by hospitals, teaching hospitals, outpatient clinics, clinics and other healthcare units; organizations; medical apparatus and device manufacturers; in medical apparatus and device trade, technical commissioning, accreditation and attestation organizations; medical apparatus and device design, development and technological organizations; research and development, consulting and medical administration organizations.

Date of enrolment:

12th of June - 10th of July 2023

Admission requirements:

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