

FACULTY
OF ELECTRICAL
ENGINEERING

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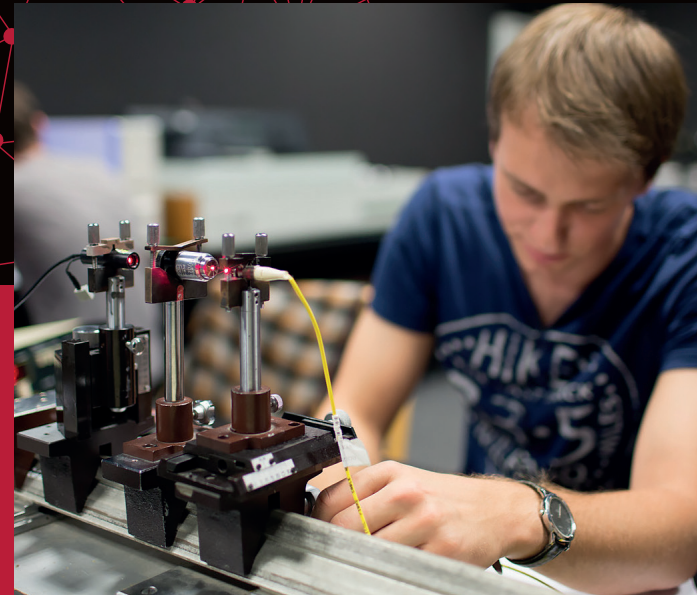
Bialystok University of Technology, the Faculty of Electrical Engineering, offers students full-time first degree studies in Electrical and Electronic Engineering and second degree studies in Electronics and Telecommunications.

The Faculty of Electrical Engineering,

established in 1949, carries out studies in the field of electrical engineering, electronics and telecommunication, and renewable energy technologies.

Research works conducted at the faculty concern current scientific issues, development of electrical and electronic technologies and their implementations. The staff of the faculty consists of 81 scientists and teachers, including 5 full professors, 21 associate professors and 50 people with PhD degree in technical sciences. The scientific activity of the faculty staff is concentrated on:

- control engineering, automation, control theory and diagnostics,
- power engineering,
- industrial electronics and power electronics,
- electromagnetic compatibility of devices and IT systems,
- signal theory and digital signal processing,
- optoelectronics, lighting technology,
- formation and application of special optical fibres,
- parallel and high performance data processing.



The faculty has some modern, unique laboratories, e.g. energy converters, automatic control, fibre-optics, high voltage technology. These include devices and installations placed on the Polish Road Map of Research Infrastructure.

The development of the faculty is shaped by permanent cooperation with some electrical, electronics, IT and other high-tech companies operated in the north-east part of Poland.



Students can develop their own innovative projects as part of six student research groups: automation and robotics, electronics, automotive electronics, metrology and measuring systems, wireless technology and the Internet of Things applications, lighting systems.

Electrical and Electronic Engineering

engineering studies, 7 semesters, elective blocks to specialize in electrical engineering and electronics

This engineering course will let you gather knowledge in mathematics, physics, circuits theory, electronics, electromagnetic waves theory, signals processing, telecommunications, metrology, control engineering, renewable energy sources, energy efficiency, electromagnetic compatibility, digital and embedded systems. Within elective courses you will find modules developing your knowledge and skills in selected areas of electronics or electrical engineering including:

- principles of photonics, photo-optical detectors,
- high frequency technology,
- automotive electronics,
- radioelectric and telecommunication equipment,
- fibre optics and fibre optic networks,
- radio and television equipment,
- telecommunication networks, and their security and reliability,
- modern wireless networks,
- implementation of IT in electrical engineering,
- microprocessors and programmable digital circuits,
- machines and electric drives,
- electrical devices and installations,
- power systems,
- power electronics,
- high voltage technologies.

Electronics and Telecommunications

master studies, 3 semesters, after this master course you may continue education at 3rd degree level studies.

These studies provide graduates with specialised skills to engage in a wide range of activities in the field of electronics and telecommunications in design, operation, production and supervision, as well as to undertake innovative activities of different kinds. You will make use of advanced technology, including specialised interdisciplinary knowledge of:

- electronics and telecommunications,
- optoelectronics, fibre optics and photonics,
- programmable digital systems,
- information and coding theory,
- software engineering,
- electromagnetic compatibility,
- design and management of telecommunication networks and services and the security of information systems.



University admission: As easy as 1-2-3

1. Send the documents listed below to our international admissions officer:

High School Diploma with Transcript of Records (*1st degree applicants*) or Bachelor Degree with Transcript of Records (*2nd degree applicants*), English language certificate or a medium instruction letter, Application Form (*downloaded from our website*), passport photo

2. Arrange a Skype® interview with our international admissions officer.

3. After successful verification you receive your invitation letter. The whole process usually takes up to two weeks.

For more detailed information visit our website: pb.edu.pl/iro
Contact details: studyatbut@pb.edu.pl