

Polytechnic University of Timisoara
Faculty of Engineering Hunedoara

Bachelor study program: Electrical Engineering and Computers
Study domain: Electrical Engineering

The mission of the bachelor's study program, **Electrical Engineering and Computers** is to form specialists with higher technical training and skills in the Electrical Engineering and Computer Science study domains for the manufacturing, development and research areas, especially in the electrical field, but also in other sectors where interdisciplinary knowledge are required both in the field of electrical engineering and computers – automatic.

It is also intended that the graduates of this study program, can understand concepts, principles and theories of the electrical engineering and computer science and engineering, being capable to develop technical projects for the civil and industrial electrical systems and to efficiently use computer techniques for this purpose.

By the objectives of the study program Electrical Engineering and Computers can be mentioned as follows:

- Acquiring skills and abilities in the use of the specialized software programs in the electrical engineering and beyond;
- Ensuring a level of knowledge of the graduates at a level allowing them to identify some technical solutions that involve the use of information technologies, especially in the sectors of electrical field, but also in other fields;
- Training of the engineers – development, manufacturing and operating, specialized engineers in the electrical systems associated with industrial computer;
- Integrating of the computer techniques, automation and electronics in the design and in the use of the electrical systems.

The Electrical Engineering and Computers study program, operates in the Faculty of Engineering of Hunedoara since the 2014-2015 academic year. The structure of the bachelor study program Electrical Engineering and Computers is related to the national qualifications of the superior education according to RNCIS and provides skills and abilities required by employers, such as: operating with fundamental concepts of computer science and information technology; modeling, simulation and computer assisted testing of the electrical, electronic and information modules of the electrical systems; designing of the electrical subsystems; implementing of the documentation, testing and debugging of the electrical equipment and installations; configuration, implementation, testing, operating and maintaining of the specific information systems for the electrical engineering study domain.

The Electrical Engineering and Computers study program will represent the selection basis of the candidates for the master's study, in Faculty of Engineering of Hunedoara being two master study programs in the electrical engineering study domain.