

Study branch Engineering Technology

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Faculty	Faculty of Mechanical Engineering
Study programme	Engineering
Type of study	Bachelor
Language of instruction	English
Code of the branch	S06
Title of the branch	Engineering Technology
Regular period of the study	3 years
Cost	50,000 CZK per semester
Coordinating department	Department of Machining, Assembly and Engineering Metrology
Coordinator	prof. Ing.et Ing.Mgr. Jana Petrů, Ph.D.
Key words	machining, manufacturing process, metrology and quality

About study programme

Being a technologist means perfectly controlling engineering production processes. It needs to know the properties of materials, methods of machining, SW CAD CAM, manufacturing process and so on.

Professions

- Research team worker
- Technologist
- Rapid prototyping technology engineer
- Industrial engineer
- Production planner
- Research and development
- Research and development specialist
- Research team leader
- Researcher
- Leading technologist
- Process management specialist
- Teacher and lecturer
- Production manager

Hard skills

- Knowledge of non-destructive testing
- CNC machining technology
- Knowledge of mechanical engineering technologies
- Reading technical documentation
- Analyzing a design problem
- Processing of drawing documentation
- Metrology
- Designing production
- SW Solid works

- Knowledge of machine tool construction
- Quality control
- Knowledge of technical documentation
- Rapid Prototyping methods
- Evaluation of production and pre-production processes
- Presentation and defense of work results
- Preparation of production
- Design of machinery components
- Knowledge in the field of production technologies
- Procedures for production of machined parts

Graduate's employment

Students will find employment as head of production, assembly and metrology technologists, specialists in production.

Study aims

The aim of the study in the three-year study program Engineering is to prepare graduates for activities in all areas of engineering, especially in industrial enterprises, for which they acquire the relevant theoretical and professional knowledge and skills.

Graduate's knowledge

Within the specialization Engineering Technology the student gains a deeper knowledge of basic technological processes (forming, welding, machining) and heat treatment of materials, surface treatment of semi-finished products and basics of tool construction. Students will learn more about the possibilities of computer support of technological processes and their organization and management.

Graduate's skills

Graduates will acquire professional skills in terms of using professional terminology and processing technical documentation. They can read technical drawings of products or parts and design the most effective methods and procedures of their production, they can perform expert analysis of machinery and production technologies, they can analyze and evaluate technical solutions.

Graduate's general competence

As part of the Engineering Technology specialization, students are trained for a wide variety of technical positions in manufacturing companies. Graduates will find employment in departments of production preparation and organization, in design and construction of technological equipment, tools and fixtures, in design and construction of technological operations, in maintenance departments and other service departments.

Study curriculum

- form Full-time (en)