

# Study branch Engineering Technology

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

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

## Hard skills

- Reading technical documentation
- CNC machining technology
- Design of machinery components
- Processing of drawing documentation
- Metrology
- Quality control
- Evaluation of production and pre-production processes
- Knowledge in the field of production technologies
- Analyzing a design problem

- Designing production
- Knowledge of non-destructive testing
- Knowledge of mechanical engineering technologies
- Presentation and defense of work results
- Procedures for production of machined parts
- Knowledge of machine tool construction
- Rapid Prototyping methods
- SW Solid works
- Preparation of production
- Knowledge of technical documentation

## **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)