Materials Science and Engineering is one of the most rapidly developing branches of science and technology. It forms the basis for every branch of modern industry. It incorporates elements of such disciplines as physics, chemistry, mechanics and computer science. Materials Science examines engineering materials (metals, ceramics, polymer and composite materials), principles of material selection for various applications, technologies of manufacturing new materials. It also deals with methods of material synthesis and examination of their structure and properties.

Program of studies offers a wide variety of courses. It contains a good number of practical classes and comprises international cooperation with reputable research and industrial institutions. All this gives students thorough preparation for future work and the opportunities for broad development.

Available specializations

- Coatings and ceramic composites for technology and medicine
- Design and construction of technological equipment

Studies

- 3,5 year (full –time) first cycle studies (BSc undergraduate degree in engineering)

Students of materials science have classes in well equipped laboratories, which is a vital element of student education process. Laboratories of metals, ceramics, plastics and plasma technologies give students the possibilities to carry out various experiments, such as: hardening of steel, sintering of ceramics, deposition of thin carbon-like layers with plasma methods, to give a few.

Graduate profile

Graduates of materials science possess all the essential qualifications required to design and implement materials technologies. They have also a good knowledge and skills in the scope of the shaping of structure and properties of materials used in modern industry.

Employment possibilities

Graduates of materials science can find jobs in virtually every branch of industry. They can work in design departments as well as in tool, automotive, construction and electronic industries. They are also prepared to undertake activities in the scope of designing and manufacturing of medical equipment.

Graduates are well-trained to work as:

- material selection and design specialist
- process/product engineer
- test and quality control engineer
- plasma process engineer
- research and development specialist
- engineer in a design department