

Materials Science is a discipline, which deals with the principles of development and improvement of materials by providing them specific functional properties and characterizing their structure and features. It is an interdisciplinary branch of science, that combines the engineering expertise with knowledge of materials structure and technology, which are irreplaceable in the selection of the most appropriate materials during the design process of each device.

The *Materials Engineering* study programme at Faculty of Mechanical Engineering and Mechatronics brings together a wide range of knowledge in the field of polymeric, metallic, ceramic, and composite materials. Our graduates are experts desired and appreciated in many sectors of industry in the whole Europe. They find positions of: designers, constructors, material technologists, quality control managers, or specialists in recycling and environmental friendly technologies.

We are glad to inform that in 2018 The *Materials Engineering* as the first study programme in English at the West Pomeranian University of Technology, received the prestigious European quality certificate EUR-ACE® Label, granted by Accreditation Commission of Universities of Technology (KAUT). EUR-ACE® Label is an international accreditation system created and developed by European Network for Engineering Accreditation (ENAE), associating many European organizations involved in the education of engineers. The EUR-ACE® Certificate confirms the high level of engineering degree education being in accordance with European standards and principles. In consequence our graduates are not only well prepared to meet the industrial requirements and challenges, but also receive the prestigious title of European Engineer.
For more please visit: www.kaut.agh.edu.pl/en

Materials Engineering (in English) S2 The second-degree studies (Master of Science degree) on the *Materials Engineering* provide education in the fields of advanced research methods, design, manufacturing and utilization of engineering materials – polymers, metals, composites, and technological processes. It is based on advanced knowledge of physics, chemistry, mathematics and materials science as well as on engineering knowledge in the scope of modelling, designing and control of processing and manufacturing processes. This study is suitable for both foreigners and Polish students who would like to get advanced in English nomenclature in materials science. The studies are offered full-time for 3 semesters in two majors:

- **Light-weight Structures**

The studies expand the knowledge in the field of lightweight polymer construction composites, including biocomposites, versatile applications in aviation, shipbuilding, in a variety of mobile systems such as motor vehicles, buses, rail vehicles, rotors of wind farms with increasing dimensions, sports and recreational equipment, and many other areas of life, where high stiffness, impact resistance and lightness are required.

Students acquire the knowledge in the field of processing techniques, product design skills, specialized mechanical and non-destructive tests, operational durability assessment and recycling possibilities of lightweight constructions.

- **Processing of Polymer Materials**

The studies prepare students to design and construct technological equipment for the processing of polymeric materials, to choose strategies in the selection of materials for specific products, taking into account the conditions of their operation. The students acquire knowledge on modern methods of materials testing and methods for obtaining special construction materials based on polymers and polymer composites.

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