FACULTY OF MECHANICAL ENGINEERING

Select Faculty of Mechanical Engineering
- University with traditions
- Diversified range of studies
- 72 th years of faculty activity
- Grade A in national evaluation of scientific and R&D activities of research institutions
- Accredited College Courses
- European research programs: ERASMUS+, Leonardo da Vinci, Tempus, CEEPUS
- Double degree (Cranfield University, TU Bergakademie Freiberg)
- Cooperation with industry

Presentation of specialisation
If you are interested in the most modern knowledge and skills inside the materials designing and manufacturing technologies focused on the automotive industry, this offer is for you!

The recruited students will be the participants of the EU co-financed project, so lot of additional benefits will appear for example: Polish language intensive course for foreigners, English intensive course if necessary, cultural and touristic activities, summer school and many others. For students from abroad there is a Ministry stipend offered to cover the accommodation and living expenses high enough to manage stay in Poland.

The project is entitled: „The specialty 'Materials Technology for Automotive Industry' as a key for the future career in the international automotive sector” under the grant No. POWR.03.03.00-00-IP.08-00-MPK/16.

Subjects of the specialisation
- Metallurgy for casting and welding engineers
- Quality control systems, castings defects
- Laser welding technologies
- Computer modeling of welding processes
- Casting alloys for castings in automotive industry
- Pressure casting processes
- Automatic moulding lines
- Metal forming in the automotive industry
- Management and quality systems in automotive industry
- Modern technologies of tailoring the structure and properties of engineering materials
- Design, manufacturing and processing of polymer materials and composites
- Surface engineering
- Precise casting
- Project management in automotive industry

Graduate profile
The graduates will possess the broad knowledge and skills in the manufacturing technologies like casting, metalworking, heat treatment, surface engineering and others. Thanks to that they will find the job in various automotive-oriented companies all around the world. The SUT is located near the Katowice Special Economic Zone where operate tens of such companies. There is still lack of engineers in the fields covered by this study. Several well-known automotive industry suppliers like Cosma Casting, Teksid Iron Poland, Brembo, Nemak Poland, Ficosa and others as well as cars producers (mostly GM Poland in Gliwice) offer a lot of opportunities for students to develop their skills during the study and then very attractive workplaces.

Materials Technology for Automotive Industry MC10
Recruitment

A recruitment process for foreign students starts on November, 1st and ends on December, 15th and is supported by online system.
https://apply.polsl.pl/

A recruitment process for Polish students starts on January, 8th and ends on January, 31st and is supported by online system.
https://sorek.polsl.pl/

Contact

If you need any further information or assistance during the application process feel free to contact professor Jan Jezierski the project supervisor at jan.jezierski@polsl.pl
http://mt.polsl.pl/kafelka/wydzialowa-komisja-rekrutacyjna/
http://www.facebook.com/mt.polsl

Links

Here you will find several links to website of some of the companies cooperated in the manufacturing technologies area with our faculty:
http://www.magna.com/capabilities/body-chassis-systems
http://www.nemak.com/
https://www.ficosa.com/

Professional scientific Staff

The academics involved in teaching the above mentioned courses come from: Institute of Engineering Materials and Biomaterials, Department of Welding and Department of Foundry Engineering. All of them are well-recognized experts in the specific areas and have wide experience both in university teaching and industrial applications matters. All subject are offered fully in English.

Modern laboratories → Innovative research

The Faculty of Mechanical Engineering possess a outstanding laboratory equipment devoted to the materials science and manufacturing technologies. Some devices are unique and provide the exceptional research capacity for example: High Resolution Transmission Electron Microscope, High Resolution Scanning Electron Microscope, Atom Force Microscope and Spectral Analysis, devices dedicated to: Powder Metallurgy, Photovoltaic and Electric Properties Examination, Polymer Materials Examination, Heat Treatment, Alloys Melting laboratory, Metallographic Examination laboratory, Precise Casting laboratory, Laser Welding, Surface Treatment laboratory and many, many more.