

Product Engineering

Field of study: Mechanical Engineering



Programme description

The course is intended for mechanical engineers who want to broaden their education by issues connected with managing an industrial product in its whole life cycle, starting from design and finishing in disposal (cradle to grave approach). Environmental, economic and social impacts of any products' existence must all be considered in a path to create goods suitable for future, sustainable economy.

Everything that is available at the global market, both goods and services, is also a subject to the global competition. Therefore, a strong focus in the course is put on the marketing approach to a product, understanding that not only technical requirements stated by potential customers are the source of a products' market status. Interdisciplinary, multispect thinking is necessary in the work of a successful product manager.

Faculty of Machines and Transport offers an unique study programme aimed at educating engineers for the needs of sustainable economy. The Faculty has sixty years of experience in teaching and high scientific potential in means of qualified staff and exceptional research equipment. Adding the ongoing cooperation with best European educational and R&D institutions, it all provides with conditions for high-level technical education.

Course summary:

Semester 1

- Analytical mechanics
- Applied mathematics
- Modern physics issues
- Technical thermodynamics
- Programming languages
- Surface engineering
- Strength of mechanical constructions
- Ecological evaluation tools (LCA)
- Ecotechnologies
- Marketing
- Foundations of innovation
- Professional training
- Summer school

Semester 2

- Fluid mechanics
- Quality engineering
- Modeling of mechanical systems
- Computer aided design (CAD)
- Modern engineering materials
- Machine technology
- Services engineering
- Intellectual property and customer protection
- Life Cycle Management (LCM)
- Ecodesign

Semester 3

- Modern management systems
- Project management
- Life Cycle Costing (LCC)
- Corporate culture and communication
- Diploma seminar
- Profile course I
- Profile course II
- Profile course III



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University	Poznan University of Technology Poznan, POLAND
Degree to be obtained	Master of Science
Faculty	Faculty of Machines and Transport
Address	Piotrowo 3 60-965 Poznan Phone: +48 61 665 2355 Fax: +48 61 665 2402
Programme web site	https://www.put.poznan.pl/en
Contact	Lifelong Learning and International Education Office Pl. M. Skłodowskiej-Curie 5 60-965 Poznan
Phone	+48 61 665 3544
Fax	+48 61 665 3956
E-mail	study@put.poznan.pl
Language of instruction	English
Tuition fee	EU citizens: free of charge Non-EU citizens 1600 EUR first semester 1400 EUR each following semester
ECTS points	90
Duration	1,5 years (3 semesters)
Programme begins	end of February
Programme ends	end of June
Deadline for application	3 months before the course starts – end of November
Education requirements	English language – level B2 (Common European Framework), Bachelor's degree or its equivalent in engineering or applied sciences, with a qualification in mechanical engineering. Full list of the required documents is available at https://www.put.poznan.pl/en
Mode of instruction	Lectures, classes, laboratory classes, projects, workshops, internships

