

# Product Engineering

Field of study: Construction and Exploitation of Means of Transport



## 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

## Programme description

The course is intended for mechanical engineers who want to broaden their education on 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 but also interdisciplinary multi-aspect thinking is necessary in the work of a successful product manager.

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



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<b>University</b>	Poznan University of Technology Poznan, POLAND
<b>Degree to be obtained</b>	Master of Science
<b>Programme website</b>	<a href="https://www.put.poznan.pl/en">https://www.put.poznan.pl/en</a>
<b>Contact</b>	International Relations Office Pl. M. Skłodowskiej-Curie 5 60-965 Poznan, Poland
<b>Phone</b>	+48 61 665 3544
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<b>E-mail</b>	<a href="mailto:study@put.poznan.pl">study@put.poznan.pl</a>
<b>Language of instruction</b>	English
<b>ECTS points</b>	90
<b>Duration</b>	1.5 years (3 semesters)
<b>Programme begins</b>	end of February
<b>Programme ends</b>	end of June
<b>Deadline for application</b>	3 months before the course starts – end of November
<b>Education requirements</b>	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: <a href="https://www.put.poznan.pl/en">https://www.put.poznan.pl/en</a>
<b>Mode of instruction</b>	Lectures, classes, laboratory classes, projects, workshops, internships

