

Product Development in Mechanical Engineering (M. Sc.)

Advanced mechanical engineering applications (product design and data management, FEM in statics and dynamics, methods of product design, mechatronic systems, and 5 elective modules), detailed fundamentals and knowledge in applied mathematics, technical physics and computer engineering, and product development skills in innovation management, and business administration and e-business.

The 5 chosen elective modules are dedicated to specialisation in the field of product design (e.g. computer aided technologies in product design, or technology and design of plastics). Most of the modules mentioned above are supported by comprehensive laboratory tasks and the engineering principles are applied to real-life problems.

A project thesis (300 h including the presentation of results) and an application-oriented thesis (4 months with an additional oral examination) are drawn from research in the department or from research in industrial companies and are designed to develop skills and problem-solving abilities in product design and mechanical engineering.