

# information sheet course of study

## Plastics Engineering

### General Information

Having the professional demands on technical and social competences of the plastic processing industry in mind, this course of study is downright practice-oriented.

The contents of study focus on majors in plastics engineering, apart from scientific and engineering key qualifications. This will enable the graduate to analyse problems in an interdisciplinary and systematic fashion, to develop adequate solutions by him/herself and to apply them within a company (problem solving competence)

### Course of Study

The programme is seven semesters in duration. It is divided into modules which are combined subject-related into module groups. A further part of this programme is a basic internship during lecture-free time, as well as a practical semester during semester 5.

The module group **mathematical and scientific basics** contains essential scientific subjects which are a basis for the courses covered during the studies. The modules are as follows:

- Mathematics for Engineers
- Applied Physics and Chemistry
- Computer Sciences for Engineers.

The module group **Engineering Basics** covers the specialised subject area with the following modules:

- Engineering Mechanics (Statics and Dynamics)
- Materials
- Strength of Materials
- Machine Elements 1

- Construction 1
- Basics in Electrical Engineering
- Thermodynamics and Heat Transmission
- Technical Fluidics
- Control and Feedback Control Technology

The module group **General Engineering** offers the possibility to deepen the engineering knowledge:

- Construction 2
- Machine Elements 2
- Quality Assurance
- Electrical Drives
- Measurement Engineering
- Automation and Robotics.

The specialisation in the module group **Plastics Engineering** are offered in the following subject areas:

- Polymer Chemistry
- Plastics Engineering 1 + 2
- Polymer Composites
- Mechanics of Polymeric Material
- Polymer Processing 1 + 2
- Polymer Recycling
- Tool Making

The basic education (mathematical and scientific, as well as, in parts, engineering basics) is that of the programme Mechanical Engineering. The orientation towards plastics engineering is done by the module group plastics engineering, plus the practical semester and the Bachelor Thesis.

The course of study ends with the awarding of **Bachelor of Engineering (B.Eng.)**.

### Student Advisory Service in Amberg

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