

information sheet course of study

Mechanical Engineering

General Information

Mechanical Engineers take care of development, construction and manufacturing of products, machines and plants. Even marketing is their task. Studying this course of study opens excellent professional prospects in the High-Tech-Area, not least because of a lack of Engineers in Germany. The operating fields consist of almost every branch of industry right up to service – internationally considered as well.

Course of Study

The Bachelor programme is organised in modules forming according to content-related points module groups. Further components are a basic internship during lecture-free time as well as a practical semester in semester 5.

The module **engineering basics** conveys essential knowledge which builds a basis for the further progress of study. It consists of the following lectures:

- Technical Mechanics
- Materials
- Strength of Materials
- Machine Elements 1
- Construction 1
- Electrical Engineering 1
- Dynamics of Machines
- Technical Thermodynamics
- Technical Flow Mechanics
- Control and Feedback Control Systems.

The module **engineering application** treats the following important topics:

- Construction 2
- Machine Elements 2
- Production Engineering and Quality Assurance
- Plastics Technology
- Electrical Engineering 2
- Measurement
- Conversion of Energy in Engines and Machines

The module **intensification** offers the possibility to specialise according to preference. Based on fields of activity and competences of the faculty Mechanical and Environmental Engineering these are for example:

- Automation
- Laser Machining Technology
- Plastics Machining Technology
- Mechatronics
- Automotive Engineering.

Projects pick up practical topics of the field of Mechanical Engineering, for the most part in close relation to the industry. This is also valid for the **Bachelor thesis**, expanded, of course, in terms of time and content.

The practical element of this course of study is guaranteed by practical phases. A **basic internship** of 12 weeks has to be done during lecture-free time within the first 4 semesters. It can take place partly or to full extend before the course of study begins. But it has to be aligned with the official representative in internship matters in any case. Part and parcel of this course of study is a **practical semester** (semester 5) which has to be 22 weeks in duration.

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

There is also the possibility to do the Master degree in Innovation Focused Engineering in Management (IFEM) afterwards at the University of Applied Sciences Amberg-Weiden. It is three semesters in duration and ends with the awarding of **Master of Engineering (M. Eng.)**.

Student Advisory Service in Amberg

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