Hochschule Kempten
University of Applied Sciences

Industrial Engineering

(Mechanical Engineering with Business)

- Bachelor of Engineering -

PROFESSIONAL ENVIRONMENT FOR INDUSTRIAL ENGINEERS

Typical industrial areas where our graduates are in demand are the automotive industry on the one, mechanical and plant engineering on the other hand. In addition, the combination of technology and non-technology related study elements open the door to various other attractive working areas.

Interweaving technology with business and social tasks is a key feature of industrial engineering. Some activity areas, such as product or distribution management and service will put you in direct customer contact, others, such as projecting, purchasing, materials management, production planning and control, logistics and quality management centre more around fulfilment of clients' orders, and others again, such as business development or planning, innovation and technology management aim at as preparation for successful business activity.

JOB PROSPECTS

Our past students launched excellent careers right after graduation and, concluding from demand prognoses the increasing importance of thinking and acting in an interdisciplinary context and international environment, our future graduates will continue to have very good chances on the job market.

YOUR PERSONAL BACKGROUND

You should feel enthusiastic about technology but have an interest in financing topics as well, and bring a talent for planning, organisation and networking. In addition you are interested in economic and international topics.

HOW THE STUDIES ARE ORGANISED

The Basic Studies Period comprises semesters 1 and 2 and imparts the basics of the sciences, technology and economic aspects. The following semesters form the Advanced Studies Period.

Semesters three and four will extend your basic knowledge and deepen subject areas relevant for your future occupation in a practice-oriented manner. Language trainings are a part of this, too. Semester five is the work placement semester in which you will work full-time in a company, if possible abroad.

In semesters six and seven you will have various options to gain more in-depth knowledge, you may specialize in areas such as product management, distribution, logistics, quality management and technology. Towards the end of your studies you will independently write a Bachelor thesis under the supervision of a professor. The tasks here are often given by a company and may possibly give you a further opportunity to get into contact with potential employers. After successful graduation Kempten University of Applied Sciences will award the academic degree Bachelor of Engineering (B.Eng.).

PRACTICE-ORIENTED TRAINING IN COMPANIES

All Universities of Applied Sciences in Bavaria try to achieve a strong link between theory and practice. In addition to the standard practice elements as described hereafter you may also consider to enter one of our Dual Study courses (studies with extended practical experience), which will further enhance your practice-orientation.

A first insight in the technology working environment will be given in a six-weeks' initial work placement which is ideally to be done prior to study begin. You may do this e.g. in the production or assembly department of an industrial or craft company. Technical courses during military service or holiday work will be acknowledged if these are in line with the prerequisites. The initial work placement must be certified by a confirmation of the company giving information about kind and duration of the work.

If you have done an apprenticeship in a mechanical engineering, or completed the technology stream of a (German) technical college you may be exempt from this pre-study work placement.

In the work placement semester (semester 5) you will tackle tasks and problems yourself which will give you good insight into the structures and operational processes and procedures of an enterprise. The tasks may be from almost all departments of a company as long as they have to do with industrial engineering, such as making analyses, planning, organisation or reporting.

LIST OF STUDY MODULES

Basic Studies Period (Semesters 1 and 2)

- Mathematics
- Technical Mechanics
- Physics
- Electrical Engineering
- Materials Science
- CAD and Technical Drawing
- Process-oriented Business Administration
- Cost Accounting
- Accounting and Balancing

Main Studies Period (Semesters 3 to 7)

- Legal Issues
- Marketing
- Finance and Investment Management
- Foreign languages
- Communicational and Presentational Skills
- Heat and Fluid Technology
- Machine Elements and Design
- Processing Technology
- Process-oriented Quality Management
- Project Management
- Occupational Science
- Production Planning and Logistics
- Business Planning
- Information Systems
- Electives
- Project
- Bachelor Thesis

This list of study modules is an excerpt of all course modules available in Industrial Engineering (subject to alteration).

AFTER GRADUATION

The Bachelor's degree will enable you to direct entry on the job market with an over-average income, or entry into a Master's degree course.

Kempten University of Applied Sciences offers you various possibilities here in the technological and business areas alike.

CONTACT

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IMPORTANT LINKS

(Information in English on our website)

www.hs-kempten.de > INTERNATIONAL > click English flag (in the top left-hand corner)

Information for international exchange students
(> INTERNATIONAL > EXCHANGE STUDENTS / INCOMING)

Study programmes – short description in English
(> INTERNATIONAL > DOWNLOADS > Study Programmes)

Guests and Visitors at Kempten University
(> INTERNATIONAL > GUESTS AND VISITORS)

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PLEASE NOTE that, although this description is written in English, the study course is taught in German.