



Industrial Engineering (Electrical Engineering / Mechatronics) - Bachelor of Engineering –

IMPORTANCE OF BUSINESS ADMINISTRATION AND ENGINEERING

This degree course blends core areas from business management with selected modules of challenging engineering disciplines. A special feature of this course is that it combines two entirely different ways of thinking and working, and its interdisciplinary approach. Industrial engineers define the requirements for new products, determine production and manufacturing processes or accompany contractual negotiations in purchasing and distribution. They make a decisive entrepreneurial contribution for the overall development of industrial companies.

AREAS OF ACTIVITY AND JOB PROSPECTS

Industrial engineers trained at our university have perfect prospects of a successful entry into the job market. The majority of our graduates are employed by companies directly after writing their final thesis. Frequent areas of employment are product and project management, production planning and logistics, distribution, purchasing and marketing and controlling. In addition to their excellent opportunities in private companies, industrial engineers can also find work in public administrations and authorities, institutions and associations and in research institutes, as free-lancers or they may found companies of their own.

REQUIREMENTS

Our study offer is ideal for you if you feel attracted by the combination of two different subject areas which, on first view, do not have much in common, and if you wish to take up an interdisciplinary study ensuring a very broad range of working opportunities.

HOW THE STUDIES ARE ORGANISED

The studies consist of a basic and an advanced studies period and have a duration of seven semesters.

The basic studies period (semesters 1 and 2) concentrates on imparting the basics of mathematics, science, technology and economics and business. At the end of the basic studies period you elect one out of two streams for the technological part of your studies, either Electrical and Information Engineering, or Mechatronics.

In the subsequent advanced studies period you will learn the core and in-depth competencies of the two disciplines necessary for your future work. Special emphasis is put on linking theory with practice, supported by a wide range of practical work during your training. After completion of your work placement semester you may specialize by choosing one out of two specialisation modules Production Automation or Supply Chain Management, and further customize your studies by selecting modules from or comprehensive catalogue of electives. Studies are terminated with a Bachelor thesis in which you will prove the capability of independently solving a set of problems by use of scientific methods. Upon successful graduation the university will award the academic degree Bachelor of Engineering (B.Eng.).

PRACTICE-ORIENTED TRAINING IN COMPANIES

Semester 5 is a work placement semester which you will complete in industry. This will give you an opportunity to apply the theories learnt so far in an on-the-job training. It will deepen your understanding how theory and practice connect and will give you an ability to work practically at an early stage, one of the essential training objectives of Universities of Applied Sciences. Ideally you will complete the work placement in a non-German speaking country abroad, which will considerably improve your job prospects by enhancing your intercultural competencies and language skills.

FURTHER QUALIFICATION

The academic degree Bachelor of Engineering will offer good chances to acquire further qualification in a Master's degree course either at Kempten University of Applied Sciences or at any other university worldwide. Kempten University of Applied Sciences offers various Master programmes in technology or business and economics. There are plans to offer a three-semester Master's programme for industrial engineers designed to meet the demands of technical product management.

LIST OF STUDY MODULES

Basic Studies (Semesters 1 and 2)

- Fundamental of Electronics
- Physics
- Mathematics
- Computer Science 1 and 2
- Electrical Engineering and Digital Technology
- Bookkeeping and Accounting
- Process-Oriented Business Administration and Management
- Law

Advanced Studies (Semesters 3 to 7)

- Electrical Metrology
- Control Engineering
- Cost Accounting
- Finance and Investment
- Marketing
- Information Systems
- Production Planning and Technology
- Business Planning
- Human Resource Management
- Psycho-Social Competencies
- Foreign Language – English or Spanish
- Course Electives
- General Electives

Stream Mechatronics:

- Engineering Mechanic
- Machine Components and Materials Science
- Design and CAD
- System Design

Stream: Electrical Engineering and Information Technology:

- Electronic Materials and Components
- Electronics
- Communication Engineering
- Electrical Energy and Drive Technology

Specialisation Modules:

- Supply Chain Management
- Production Automation

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.