Food & Packaging Technology
- Bachelor of Engineering -

YOUR WOKRING AREA

This technology-oriented degree course will provide you with knowledge and skills from classical mechanical engineering and combine it with competences from the food processing area and packaging technology. After graduation you may find employment in companies working following fields:

- Food processing industry
- Manufacturers of packaging machines or packaging materials
- Soft drink industry
- Pharmaceutical industry
- Laboratories conducting analyses for the food processing and packaging industries
- Plastics processing industry
- Mechanical engineering
- Trade and commerce

These companies are looking for well-trained engineers with comprehensive interdisciplinary knowledge from the food processing and packaging areas. The knowledge of the interaction of food and its packaging will continue to gain importance. You will play a key role for successful marketing and sale of food, e.g. by working on and optimising food processing chains and packaging processes. Manufacturing companies of packaging machines and packaging materials need specialists with in-depth knowledge of the entire processing chain, too. The generalist approach of our study course will give you the ability to work on these topics with specialists from other areas as well.

Moreover the food processing industry is strong as well, particularly in the Allgäu region. But there are many job opportunities in other regions in Germany as well, especially in the sectors named above. Due to the courses broad-based qualification profile of our course it is possible to work in areas neighbouring the ones mentioned.

Possible industrial sectors are mechanical engineering, the plastics processing industry in general, or companies specialising in production engineering.

YOUR PERSONAL REQUIREMENTS

You should have a certain liking for technology and an interest in sciences (especially biology and chemistry) as well as in mathematics. Moreover you should bring some enthusiasm for food production and processing and for packaging. This study and working area is very suitable for women.

THE STUDYSTRUCTURE

The study consists of a basic and an advanced study period; its duration is 7 semesters or 3.5 years. The basic study period (semesters 1 and 2) lays the foundations in terms of technology and science, quite similar to our mechanical engineering course. Moreover, fundamental issues from food technology will be dealt with in depth.

The advanced studies period comprises four academic semesters and a work placement in semester 5, which you will complete in a company outside the university. Semesters 3 and 4 deal with core subjects from processing technology, thermodynamics and fluid dynamics and according areas from the packaging technology. In addition you will book lectures from the food area dealing with microbiology and milk and dairy technology. You will be given an opportunity to create your own study emphasis in semesters 6 and 7 by choosing modules from a comprehensive catalogue of electives. Your will have further core modules from packaging and processing technology there as well to refine your training.

At the end of your studies you will write a Bachelor dissertation which you will do in industry in combination with the university. Then you will graduate with the academic degree Bachelor of Engineering (B.Eng.).
COURSE OVERVIEW

Basic study period (semesters 1 and 2)

Semester 1
- Mathematics for Engineers
- Chemistry
- Engineering Mechanics
- Basic Biotechnology
- English
- Technical Drawing

Semester 2
- Physics
- Materials and Manufacturing Techniques
- Machine Elements and Design
- General Food Technology
- Electrical Engineering

Advanced study period (semesters 3 to 7)

Semester 3
- Foils and Packaging Materials Used in Packaging Technology
- Thermodynamics, Heat and Material Transmission
- Microbiology and Analytical Methods, with practical
- Mathematics of Dynamic Systems, Informatics and Simulation

Semester 4
- Food Packaging Systems and Processes
- Milk and Dairy Technology
- Legal Issues of Food and Packaging, Hygiene
- Processing Technology
- Fluid Dynamics

Semester 5
- Work placement semester
- Product Liability
- Project Management
- Presentation Techniques

Semester 6
- Food and Bottling Technology
- Measurement and Control Engineering
- Investment Management and Accounting
- Project
- Elective 1 and Elective 2

Semester 7
- Bachelor Thesis
- Elective 3
- Elective 4
- Compilation and Editing of Technical Documentation
- Projecting Production Plants and Packaging Machines

YOUR PRACTICAL TRAINING IN INDUSTRY

Studies at Kempten University are characterised by a close link between theory and practice. You may apply with regional companies to complete engineering studies with extended training in which you work in the company also in the semester break and in return receive a salary from the company in question throughout your study period.

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.