

Information Sheet

Course of Study

Industrial Engineering and Management

General Information

To integrate technical and business-related competences with a stressed practical relevance is the goal of the education as an Industrial Engineer. The course of study conveys profound knowledge and skills in business, engineering and sciences disciplines as well as interdisciplinary competences. The Industrial Engineer will find his or her application in all interfaces of technical and business-related areas such as organisation, project management, consulting, controlling, marketing, distribution, logistics, data processing, manufacturing control, quality management.

Course of Study

The course of study is seven semesters in duration and consists of three phases. The first one builds a basis in engineering and business know-how. The following two phases, including a practical semester at a company, convey a profound knowledge in engineering, business and overall, integrative disciplines, as well as key qualifications in method and social competences.

The student can choose individually between the following specialisations:

- Automotive Engineering
- Power and Environmental Engineering
- Information and Communication Technology
- Integrated Logistic Systems
- Technology and Innovation Management

The lectures are complemented and intensified with internships and tutorials. Therefore, the University of Applied Sciences in Weiden has installed various state-of-the-art laboratories : CNC Technology, Robotics, Rapid-Prototyping-Processes, Computer Aided Engineering, Fuel Cells Technology, Scanning Electron Microscopy (SEM), Computer Tomography (CT), Tentative Vehicles (BMW-, Mini and Fuel Cell Vehicle).

Phase one (semesters 1 and 2), combines the following lectures:

- Mathematics
- Physics
- Technical Mechanics
- Basics in Electrical Engineering

- Materials
- Basics of Design
- Business Studies
- Accounting and Balancing
- Data Processing and Programming
- English.

In the following two phases (semester 3 to 7), the Basics of engineering and business learned during phase one are transferred into Industrial Engineering and intensified.

Focus is on the following lectures:

- Statistics and Operations Research
- Applied Electronics
- Fluid Mechanics and Thermodynamics
- Process and Environmental Engineering
- Power Engineering
- Development and Design
- Production Engineering
- Finance and Investment
- Cost Accounting and Controlling
- Marketing and Sales Management
- Economics
- Human Resource Management
- Corporate Planning and Organisation
- Economic Private Law
- Information Systems
- Project and Quality Management
- Company Organisation, Ergonomics
- Factory Planning, Material Flow System
- Logistic Processes
- Elective Subjects.

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

Student Advisory Service in Weiden

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