

Key facts

- Degree: Diploma
- Duration: Full time (10 semester)
Part time (20 semester)
- Start: Every winter term
- Type of study: Compulsory attendance
- Admission requirements: A-levels or equivalent,
NC-Procedure

Career prospects

Graduates with a Diploma in Industrial Engineering can work in a wide range of industries, particularly in fields at the interface between economics and technology. Managing functions are possible, as well as activities in the consumer goods industry, the service sector, and trading companies.

Often business engineers have inter-departmental positions in the fields of ...

- Logistics
- Marketing
- Materials Management
- Accounting
- Controlling
- Product and Company Management

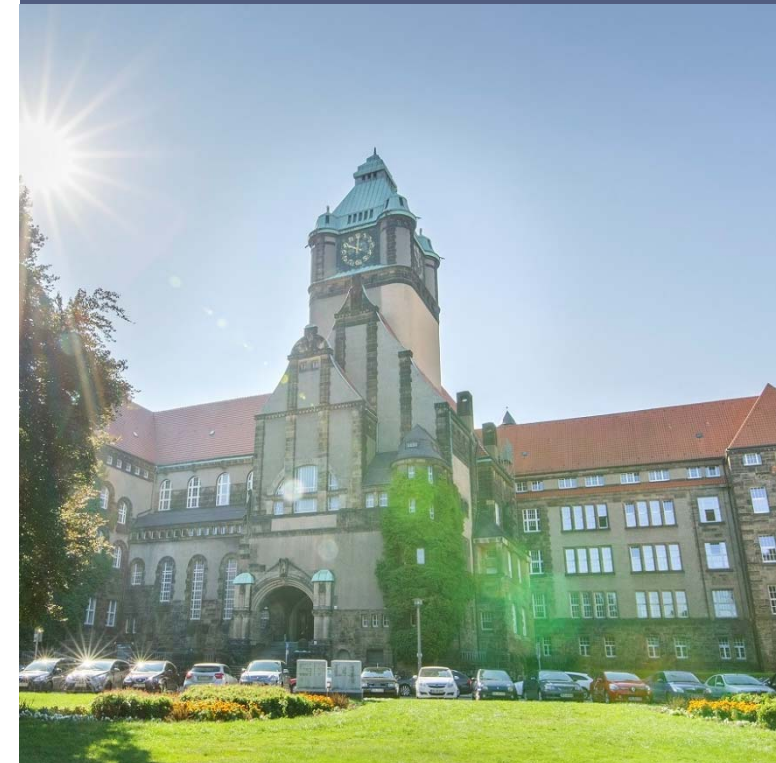
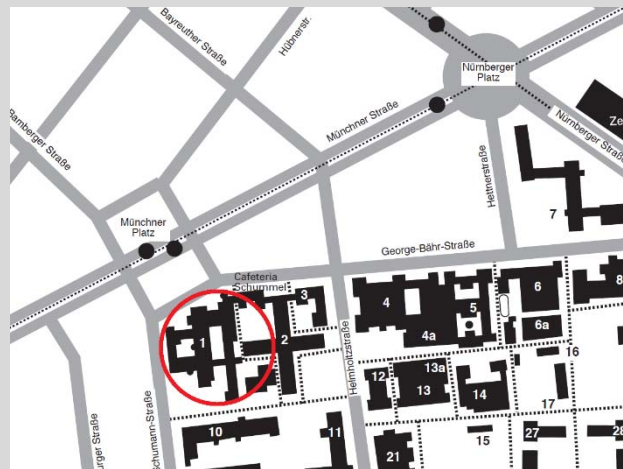
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DIPLOMA

Industrial Engineering

Imprint

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Program Syllabus

- The program consists of main and basic studies and concludes with a diploma thesis.
- The first four semesters are called *basic studies (120 credit points)* and teach Business and Engineering fundamentals. It contains mandatory courses in Business and Economics Management, Engineering and electives from Engineering. Another mandatory module aims to communicate correct scientific and academic working methods. In the mandatory module Business and Economics students learn basics in Business, Economics, Mathematics, and Statistics. Mandatory courses in Engineering teach fundamentals in Mechanics, Chemistry, Physics, and Electrical Engineering. The electives allow either setting a focus on Electrical Engineering or Technical Mechanics.
- The *main studies* are characterized by a highly interdisciplinary orientation. The *mandatory component (25 credit points)* contains fundamental methods and scientific principles of Business and Economics Management and includes an internship.

135 credit points can be earned through further *electives from all specializations*. Furthermore, an *international focus* can be set to submit credits earned at foreign universities and to spend time abroad.

Basic studies (120 credit points) (1.-4. semester)

Mandatory Courses Business and Economics

- Business Administration, Economics
- Mathematics, Statistics, Quantitative Methods
- Scientific and Academic Working Methods

Mandatory Courses Engineering

- Fundamentals in Electrical Engineering
- Statics
- Physics and Chemistry
- Technical specialization

Elective Courses Engineering

- Electrical Engineering
- Technical Mechanics



Main studies (160 credit points) (5.-9. semester)

Mandatory Courses (25 credit points)

- Fundamentals in Methods / Scientific Principles
- Internship
- Research Seminar

Elective Courses (135 credit points)

- Business and Economics Management
- Engineering
- Interdisciplinary additional supplement field



Diploma thesis (20 credit points) (10. semester)

Elective Modules

Business and Economics Management

Accounting and Finance
Car Business Management
Environmental Management and Energy Economics
Learning and Human Resources Management
Management and Marketing
Operations and Logistics Management
Economic Policy and Political Economy
Financial Economics and Global Markets
Information Management in Manufacturing and Commerce
Business Intelligence
Information Management
Systems Engineering
Business and Economics Education

Engineering

Civil Engineering
Electrical and Computer Engineering
Mechanical Science and Engineering
Hydro Science
Transport Engineering

Interdisciplinary courses

Econometrics
Foreign Languages
Health Economics
Interdisciplinary Studies (only in study direction „International“)
Operations Research
Statistics
Transport Economics