

Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w21)

Sample course plan A Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7))

Specialisation Green Technologies, Focus Water and Environmental Engineering

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|--|--|------|---|------|--|------|---|------|---------------------------------|-------|--|------|---|
| 1 | Chemistry | VL 4 | Electrical Engineering II: Alternating Current Networks and Basic Devices | VL 3 | Technical Thermodynamics II | VL 2 | Signals and Systems | VL 3 | Introduction to Control Systems | VL 2 | Foundations of Management | VL 3 | Advanced Internship AIW/ ES |
| 2 | Chemistry I+II | HÜ 2 | Electrical Engineering II: Alternating Current Networks and Basic Devices | VL 3 | Technical Thermodynamics II | HÜ 1 | Signals and Systems | GÜ 2 | Introduction to Control Systems | GÜ 2 | Introduction to Management | VL 3 | Advanced Internship AIW/ ES: Preparation |
| 3 | | | Electrical Engineering II: Alternating Current Networks and Basic Devices | GÜ 2 | Technical Thermodynamics II | GÜ 1 | | | | | Management Tutorial | GÜ 2 | Advanced Intership AIW/ ES: Internship-accompanying Seminar |
| 4 | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | |
| 7 | Electrical Engineering I: Direct Current Networks and Electromagnetic Fields | VL 3 | Fundamentals of Mechanical Engineering Design | VL 2 | Mathematics III | VL 2 | Fundamentals of Fluid Mechanics | VL 2 | Heat and Mass Transfer | VL 2 | Green Technologies II (part 2) | PR 1 | |
| 8 | Electrical Engineering I: Direct Current Networks and Electromagnetic Fields | GÜ 2 | Fundamentals of Mechanical Engineering Design | HÜ 2 | Analysis III | GÜ 1 | Fluid Mechanics for Process Engineering | HÜ 2 | Heat and Mass Transfer | GÜ 1 | Technology | | |
| 9 | | | | | Analysis III | HÜ 1 | Fundamentals on Fluid Mechanics | GÜ 2 | Heat and Mass Transfer | HÜ 1 | Particle Technology and Solids Process Engineering | | |
| 10 | | | | | Differential Equations 1 | VL 2 | | | | | Particle Technology I | VL 2 | |
| 11 | | | | | Differential Equations 1 | GÜ 1 | | | | | Particle Technology I | GÜ 1 | |
| 12 | | | | | Differential Equations 1 | HÜ 1 | | | | | Particle Technology I | PR 2 | |
| 13 | Mathematics I | | Technical Thermodynamics I | VL 2 | | | Sanitary Engineering I | | Green Technologies II (part 1) | | | | |
| 14 | Linear Algebra I | VL 2 | Technical Thermodynamics I | HÜ 1 | | | Wastewater Disposal | VL 2 | Environmental Technologie | VL 2 | | | |
| 15 | Linear Algebra I | HÜ 1 | Technical Thermodynamics I | GÜ 1 | Engineering Mechanics III (Dynamics) | VL 3 | Drinking Water Supply | VL 2 | Pollutant analysis | VL 2 | Sanitary Engineering II | SE 2 | |
| 16 | Analysis I | VL 2 | | | Engineering Mechanics III | GÜ 2 | Drinking Water Supply | HÜ 1 | | | Drinking Water Treatment | SE 2 | |
| 17 | Analysis I | GÜ 1 | | | Engineering Mechanics III | HÜ 1 | | | | | Management of Wastewater Infrastructure | SE 2 | |
| 18 | Analysis I | HÜ 1 | | | | | | | | | | | |
| 19 | | | Mechanics II: Mechanics of Materials | VL 2 | | | Conventional Energy Systems and Energy Industry | | Hydraulic Engineering | VL 1 | | | Bachelor Thesis |
| 20 | | | Mechanics II | GÜ 2 | | | Power Industry | VL 1 | Hydraulics | PBL 1 | | | |
| 21 | Mechanics I (Statics) | | Mechanics II | HÜ 2 | Measurement Technology for Chemical and Bioprocess Engineering | VL 2 | Energy markets and energy trading | VL 2 | Hydraulic Engineering | VL 2 | | | |
| 22 | Mechanics I | VL 2 | | | Measurement Technology | VL 2 | Fossil Energy Systems | VL 2 | Hydraulic Engineering | PBL 1 | | | |
| 23 | Mechanics I | GÜ 2 | | | Physical Fundamentals of Measurement Technology | VL 2 | Fossil Energy Systems | HÜ 1 | | | | | |
| 24 | Mechanics I | HÜ 1 | | | Technology | | | | | | | | |
| 25 | | | Mathematics II | VL 2 | Practical Course Measurement Technology | PR 2 | Renewable Energies | | Green Technologies III | SE 2 | | | |
| 26 | | | Linear Algebra II | GÜ 1 | | | Renewable Energies I | VL 2 | Scientific Work and Writing | PS 2 | | | |
| 27 | Computer Science for Engineers - Introduction and Overview | | Linear Algebra II | HÜ 1 | Green Technologies I | VL 2 | Renewable Energies II | VL 2 | | | | | |
| 28 | Computer Science for Engineers - Introduction and Overview | VL 3 | Analysis II | VL 2 | Meteorology and Climate Systems - Introduction | VL 2 | Renewable Energies I | HÜ 1 | | | | | |
| 29 | Computer Science for Engineers - Introduction and Overview | GÜ 2 | Analysis II | HÜ 1 | Introduction Green Technologies | SE 2 | Renewable Energies II | HÜ 1 | | | | | |
| 30 | | | Analysis II | GÜ 1 | Meteorology and Climate Systems - Introduction | GÜ 2 | | | | | | | |
| 31 | | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | | |
| Non-technical Courses for Bachelors (from catalogue) - 6LP | | | | | | | | | | | | | |

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.

