

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 Renewable Energy | | | | | | | | | | | | | | |
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| 1 | Chemistry Chemistry I+II VL 4 Chemistry I+II HÜ 2 | | Electrical Engineering II: Alternating Current Networks and Basic Devices Electrical Engineering II: Alternating Current Networks and Basic Devices VL 3 Electrical Engineering II: Alternating Current Networks and Basic Devices GÜ 2 Current Networks and Basic Devices | | Technical Thermodynamics II Technical Thermodynamics II VL 2 Technical Thermodynamics II HÜ 1 Technical Thermodynamics II GÜ 1 | | Signals and Systems Signals and Systems VL 3 Signals and Systems GÜ 2 | | Introduction to Control Systems Introduction to Control Systems VL 2 Introduction to Control Systems GÜ 2 | | Foundations of Management Introduction to Management VL 3 Management Tutorial GÜ 2 | | Advanced Internship AIW/ ES Advanced Internship AIW/ ES: Preparation SE 1 Advanced Intenship AIW/ ES: Internship-accompanying Seminar SE 1 | |
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| 7 | Electrical Engineering I: Direct Current Networks and Electromagnetic Fields Electrical Engineering I: Direct Current Networks and Electromagnetic Fields VL 3 Electrical Engineering I: Direct Current Networks and Electromagnetic Fields GÜ 2 | | Fundamentals of Mechanical Engineering Design Fundamentals of Mechanical Engineering Design VL 2 Design Fundamentals of Mechanical Engineering Design HÜ 2 | | Mathematics III Analysis III VL 2 Analysis III GÜ 1 Analysis III HÜ 1 Differential Equations 1 VL 2 Differential Equations 1 GÜ 1 Differential Equations 1 HÜ 1 | | Fundamentals of Fluid Mechanics Fundamentals of Fluid Mechanics VL 2 Fluid Mechanics for Process Engineering HÜ 2 Fundamentals on Fluid Mechanics GÜ 2 | | Heat and Mass Transfer Heat and Mass Transfer VL 2 Heat and Mass Transfer GÜ 1 Heat and Mass Transfer HÜ 1 | | Green Technologies II (part 2) Practical Exercise Environmental Technology PR 1 Phase Equilibria Thermodynamics Phase Equilibria Thermodynamics VL 2 Phase Equilibria Thermodynamics GÜ 1 Phase Equilibria Thermodynamics HÜ 1 | | | |
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| 13 | Mathematics I Linear Algebra I VL 2 Linear Algebra I GÜ 1 Linear Algebra I HÜ 1 Analysis I VL 2 Analysis I GÜ 1 Analysis I HÜ 1 | | Technical Thermodynamics I Technical Thermodynamics I VL 2 Technical Thermodynamics I HÜ 1 Technical Thermodynamics I GÜ 1 | | Engineering Mechanics III (Dynamics) Engineering Mechanics III VL 3 Engineering Mechanics III GÜ 2 Engineering Mechanics III HÜ 1 | | Sanitary Engineering I Wastewater Disposal VL 2 Wastewater Disposal HÜ 1 Drinking Water Supply VL 2 Drinking Water Supply HÜ 1 | | Green Technologies II (part 1) Environmental Technologie VL 2 Pollutant analysis VL 2 | | Climate change impact & mitigation Technical measures to mitigate greenhouse gas emissions VL 2 Technical measures to mitigate greenhouse gas emissions GÜ 2 Basics of climate change and its effects VL 2 | | | |
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| 19 | Mechanics I (Statics) Mechanics I VL 2 Mechanics I GÜ 2 Mechanics I HÜ 1 | | Mechanics II: Mechanics of Materials Mechanics II VL 2 Mechanics II GÜ 2 Mechanics II HÜ 2 | | Measurement Technology for Chemical and Bioprocess Engineering Measurement Technology VL 2 Physical Fundamentals of Measurement Technology VL 2 Practical Course Measurement Technology PR 2 | | Conventional Energy Systems and Energy Industry Power Industry VL 1 Energy markets and energy trading VL 2 Fossil Energy Systems VL 2 Fossil Energy Systems HÜ 1 | | Thermal Separation Processes Thermal Separation Processes VL 2 Thermal Separation Processes GÜ 2 Thermal Separation Processes HÜ 1 Separation Processes PR 1 | | Electrical Power Systems I: Introduction to Electrical Power Systems Electrical Power Systems I: Introduction to Electrical Power Systems VL 3 Electrical Power Systems I: Introduction to Electrical Power Systems GÜ 2 | | | |
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| 25 | Computer Science for Engineers - Introduction and Overview Computer Science for Engineers - Introduction and Overview VL 3 Computer Science for Engineers - Introduction and Overview GÜ 2 | | Mathematics II Linear Algebra II VL 2 Linear Algebra II GÜ 1 Linear Algebra II HÜ 1 Analysis II VL 2 Analysis II HÜ 1 Analysis II GÜ 1 | | Green Technologies I Meteorology and Climate Systems - Introduction VL 2 Introduction Green Technologies SE 2 Meteorology and Climate Systems - Introduction GÜ 2 | | Renewable Energies Renewable Energies I VL 2 Renewable Energies II VL 2 Renewable Energies I HÜ 1 Renewable Energies II HÜ 1 | | | | | | | |
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| 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.

