Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w22)

| חברים | orogram lisation:Advanced Materials. | | da | | | | | |
|----------------|--|---|---|--|--------------|---|--|---|
| | | Semester 2 FormHrs/v | | vk Semester 4 | FormHrs/wk | Semester 5 FormHrs/wl | k Semester 6 FormHrs/wk | Semester 7 FormHrs/v |
| 1 | Chemistry | Electrical Engineering II: Alternating Current | Technical Thermodynamics II | Signals and Systems | | Introduction to Control Systems | Foundations of Management | Advanced Internship AIW/ ES |
| 2 | Chemistry I+II VL 4 Chemistry I+II HÜ 2 | Networks and Basic Devices Electrical Engineering II: Alternating VL 3 | Technical Thermodynamics II VL 2 Technical Thermodynamics II HÜ 1 | Signals and Systems Signals and Systems | VL 3 GÜ 2 | Introduction to Control Systems VL 2 Introduction to Control Systems GÜ 2 | Introduction to Management VL 3 Management Tutorial GÜ 2 | Advanced Internship AIW/ ES: SE 1 Preparation |
| 3 | Chemistry ITII NO 2 | Current Networks and Basic Devices | Technical Thermodynamics II GŪ 1 | Signals and Systems | GU 2 | introduction to Control Systems GO 2 | Management rutonal GO 2 | Advanced Intenship AIW/ ES: Internship- SE 1 |
| 1 | | Electrical Engineering II: Alternating GÜ 2 | | | | | | accompanying Seminar |
| 5 | | Current Networks and Basic Devices | | | | | | |
| 6 | | | | | | | | |
| - | | | | | | | | |
| 7 | Electrical Engineering I: Direct Current Networks and Electromagnetic Fields | Fundamentals of Mechanical Engineering Design | Mathematics III Analysis III VL 2 | Practical module 4 (dual study progr Bachelor's degree) | am, | Practical module 5 (dual study program, Bachelor's degree) | Modeling, Simulation and Optimization (EN) Modeling, Simulation and Optimization IV 4 | |
| 8 | Electrical Engineering I: Direct Current VL 3 | Fundamentals of Mechanical Engineering VL 2 | Analysis III GÜ 1 | Practical term 4 | 0 | Practical term 5 0 | Modeling, Simulation and Optimization 19 4 | |
| 9 | Networks and Electromagnetic Fields | Design | Analysis III HÜ 1 | | | | | |
| 10 | Electrical Engineering I: Direct Current GÜ 2 Networks and Electromagnetic Fields | Fundamentals of Mechanical Engineering HÜ 2 Design | Differential Equations 1 VL 2 | | | | | |
| 11 | Networks and Electromagnetic Fields | Design | Differential Equations 1 GÜ 1 Differential Equations 1 HÜ 1 | | | | | |
| 12 | | | Binerential Equations 1 HU 1 | | | | | |
| 13 | Mathematics I | Technical Thermodynamics I | | Advanced Materials for Sustainabilit | v | Material Science Laboratory | Materials Engineering: Materials Selection, | |
| 14 | Mathematics I VL 4 | Technical Thermodynamics I VL 2 | | Advanced Materials Characterization | VL 2 | Companion Lecture for Materials Science VL 2 | Processing and Modelling | |
| | Mathematics I HÜ 2 | Technical Thermodynamics I HÜ 1 | | Advanced Materials for Sustainability | VL 2 | Laboratory | Materials Selection and Processing VL 3 | |
| 15 | Mathematics I GÜ 2 | Technical Thermodynamics I GÜ 1 | Practical module 3 (dual study program, Bachelor's degree) | Advanced Materials for Sustainability | HÜ 2 | Material Science Laboratory PR 4 | Materials and Process Modeling VL 3 | |
| 16 | | | Practical term 3 0 | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | Mathematics II | | Computational Mechanics (EN) | | Fluid Mechanics (EN) | Machine Learning for Physical Systems | Bachelor thesis (dual study program) |
| 20 | | Mathematics II VL 4 | | Computational Mechanics | IV 4 | Fluid Mechanics VL 3 | Machine Learning for Physical Systems VL 2 | |
| 21 | Computer Science for Engineers - | Mathematics II HÜ 2 | Engineering Mechanics III (Dynamics) | Computational Mechanics | GŪ 2 | Fluid Mechanics HÜ 2 | Machine Learning for Physical Systems PBL 2 | |
| 22 | Introduction and Overview | Mathematics II GŪ 2 | Engineering Mechanics III VL 3 | | | | | |
| | Computer Science for Engineers - VL 3 | | Engineering Mechanics III GÜ 2 | | | | | |
| 23 | Introduction and Overview Computer Science for Engineers - GŪ 2 | | Engineering Mechanics III HÜ 1 | | | | | |
| 24 | Introduction and Overview | | | | | | | |
| 25 | | | | Mathematics IV (EN) | | Quantum Mechanics for Materials Science | | |
| 26 | | | | Differential Equations 2 Differential Equations 2 | VL 2 HÜ 1 | Atomic-Scale Fundamentals of Materials VL 2 Science | | |
| 27 | Practical module 1 (dual study program, | Practical module 2 (dual study program, | Numerical Mathematics I | Differential Equations 2 | GÜ 1 | Atomic-Scale Fundamentals of Materials HÜ 2 | | |
| 28 | Bachelor's degree) | Bachelor's degree) | Numerical Mathematics I VL 2 | Complex Functions | VL 2 | Science | | |
| 29 | Practical term 1 0 | Practical term 2 0 | Numerical Mathematics I GÜ 2 | Complex Functions | HÜ 1 | | | |
| 30 | | | | Complex Functions | GÜ 1 | | | |
| | | | | Fundamentals after a 11 ft. | | | | |
| 31 | | | | Fundamentals of Materials Science (Fundamentals of Materials Science II | | Measurement Technology for Mechanical Engineers | | |
| 32 | | | | | | Measurement Technology for Mechanical VL 2 | | |
| | Engineering Mechanics I (Stereostatics) | Engineering Mechanics II (Elastostatics) | Fundamentals of Materials Science (part 1) | | | Engineering | | |
| 33 | | Engineering Mechanics II VL 2 | Fundamentals of Materials Science I VL 2 | | | Measurement Technology for Mechanical HÜ 1 Engineering | | |
| | Engineering Mechanics I VL 2 Engineering Mechanics I GÜ 2 | Engineering Mechanics II GÜ 2 | | | | J J | | |
| 33 | Engineering Mechanics VL 2 | Engineering Mechanics II GÜ 2 Engineering Mechanics II HÜ 2 | Physical and Chemical Basics of Materials VL 2 Science | | | Practical Course: Measurement and PR 2 | | |
| 33 34 | Engineering Mechanics I GÜ 2 | | | | | Practical Course: Measurement and PR 2 Control Systems | | |
| 33 34 35 | Engineering Mechanics I GÜ 2 | | | | | | | |

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