

Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w17)

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|--|------------------------------------|---------------------------|------------------------------|
| Core Qualification Compulsory | Specialisation Compulsory | Focus Compulsory | Thesis Compulsory |
| Core Qualification Elective Compulsory | Specialisation Elective Compulsory | Focus Elective Compulsory | Interdisciplinary complement |

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

| Specialisation | Electrical Engineering | Semester 2 | Semester 3 | Semester 4 | Semester 5 | Semester 6 | Semester 7 |
|----------------|---|--|---|--|---|--|-------------------------------------|
| | | FormHrs/wk | FormHrs/wk | FormHrs/wk | FormHrs/wk | FormHrs/wk | FormHrs/wk |
| 1 | Chemistry | Electrical Engineering II: Alternating Current Networks and Basic Devices | Technical Thermodynamics II | Theoretical Electrical Engineering I: Time-Independent Fields | Introduction to Control Systems | Foundations of Management | Advanced Internship AIW/ GES |
| 2 | Chemistry I VL 2 | Electrical Engineering II: Alternating Current Networks and Basic Devices VL 3 | Technical Thermodynamics II VL 2 | Theoretical Electrical Engineering I: Time-Independent Fields VL 3 | Introduction to Control Systems VL 2 | Introduction to Management VL 3 | |
| 3 | Chemistry II VL 2 | Electrical Engineering II: Alternating Current Networks and Basic Devices VL 3 | Technical Thermodynamics II HÜ 1 | Theoretical Electrical Engineering I: Time-Independent Fields VL 3 | Introduction to Control Systems GÜ 2 | Management Tutorial HÜ 2 | |
| 4 | Chemistry I HÜ 1 | Electrical Engineering II: Alternating Current Networks and Basic Devices GÜ 2 | Technical Thermodynamics II GÜ 1 | Theoretical Electrical Engineering I: Time-Independent Fields GÜ 2 | | | |
| 5 | Chemistry II HÜ 1 | | | | | | |
| 6 | | | | | | | |
| 7 | Electrical Engineering I: Direct Current Networks and Electromagnetic Fields | Fundamentals of Mechanical Engineering Design | Mathematics III | Signals and Systems | Theoretical Electrical Engineering II: Time-Dependent Fields | Electrical Engineering Project Laboratory | |
| 8 | Electrical Engineering I: Direct Current Networks and Electromagnetic Fields VL 3 | Fundamentals of Mechanical Engineering Design VL 2 | Analysis III VL 2 | Signals and Systems VL 3 | Theoretical Electrical Engineering II: Time-Dependent Fields VL 3 | Electrical Engineering Project Laboratory PBL 8 | |
| 9 | Electrical Engineering I: Direct Current Networks and Electromagnetic Fields GÜ 2 | Fundamentals of Mechanical Engineering Design HÜ 2 | Analysis III GÜ 1 | Signals and Systems GÜ 2 | Theoretical Electrical Engineering II: Time-Dependent Fields GÜ 2 | | |
| 10 | | | Analysis III HÜ 1 | | | | |
| 11 | | | Differential Equations 1 VL 2 | | | | |
| 12 | | | Differential Equations 1 GÜ 1 | | | | |
| 13 | Mathematics I | Technical Thermodynamics I | Electrical Engineering IV: Transmission Lines and Research Seminar | Introduction to Communications and Random Processes | Semiconductor Circuit Design | | |
| 14 | Linear Algebra I VL 2 | Technical Thermodynamics I VL 2 | Transmission Line Theory VL 2 | Introduction to Communications and Random Processes VL 3 | Semiconductor Circuit Design VL 3 | | |
| 15 | Linear Algebra I GÜ 1 | Technical Thermodynamics I HÜ 1 | Research Seminar Electrical Engineering, Computer Science, Mathematics SE 2 | Random Processes VL 3 | Semiconductor Circuit Design GÜ 1 | | |
| 16 | Linear Algebra I HÜ 1 | Technical Thermodynamics I GÜ 1 | Transmission Line Theory HÜ 2 | Introduction to Communications and Random Processes HÜ 1 | | | |
| 17 | Analysis I VL 2 | | | | | | |
| 18 | Analysis I GÜ 1 | | | | | | |
| 19 | Analysis I HÜ 1 | | | | | | |
| 20 | | Mechanics II: Mechanics of Materials | Materials in Electrical Engineering | Electronic Devices | | Bachelor Thesis | |
| 21 | Mechanics I (Statics) | Mechanics II VL 2 | Materials in Electrical Engineering VL 2 | Electronic Devices VL 3 | | | |
| 22 | Mechanics I VL 2 | Mechanics II GÜ 2 | Materials in Electrical Engineering GÜ 2 | Electronic Devices PBL 2 | | | |
| 23 | Mechanics I GÜ 2 | Mechanics II HÜ 2 | Electrotechnical Experiments VL 1 | | | | |
| 24 | Mechanics I HÜ 1 | | | | | | |
| 25 | | | | | | | |
| 26 | | Mathematics II | Computer Engineering | Measurements: Methods and Data Processing | | | |
| 27 | Programming in C | Linear Algebra II VL 2 | Computer Engineering VL 3 | Measurements: Methods and Data Processing VL 2 | | | |
| 28 | Programming in C VL 1 | Linear Algebra II GÜ 1 | Computer Engineering GÜ 1 | Processing VL 2 | | | |
| 29 | Programming in C PR 1 | Linear Algebra II HÜ 1 | Computer Engineering GÜ 1 | Measurements: Methods and Data Processing GÜ 1 | | | |
| 30 | Physics for Engineers (AIW) | Analysis II VL 2 | Electrical Engineering III: Circuit Theory and Transients | EE Experimental Lab PR 2 | | | |
| 31 | Physics for Engineers VL 2 | Analysis II HÜ 1 | Circuit Theory VL 3 | | | | |
| 32 | Physics for Engineers GÜ 1 | Analysis II GÜ 1 | Circuit Theory GÜ 2 | | | | |

Nontechnical Complementary 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.

