

Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w20)

Legend:

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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 - Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7))

| Specialisation | Naval Architecture | 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 | Signals and Systems | Introduction to Control Systems | Foundations of Management | Advanced Internship AIW/ ES |
| 2 | Chemistry I+II 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 | Introduction to Management VL 3 | Advanced Internship AIW/ ES: SE 1 |
| 3 | Chemistry I+II HÜ 2 | Electrical Engineering II: Alternating Current Networks and Basic Devices GÜ 2 | Technical Thermodynamics II HÜ 1 | Signals and Systems GÜ 2 | Introduction to Control Systems GÜ 2 | Management Tutorial GÜ 2 | Preparation |
| 4 | | | | | | | Advanced Internship AIW/ ES: Internship-accompanying Seminar SE 1 |
| 5 | | | | | | | |
| 6 | | | | | | | |
| 7 | Electrical Engineering I: Direct Current Networks and Electromagnetic Fields | Fundamentals of Mechanical Engineering Design | Mathematics III | Fluid Dynamics | Stochastics and Ship Dynamics (part 1) | Ship Design | |
| 8 | Electrical Engineering I: Direct Current Networks and Electromagnetic Fields VL 3 | Fundamentals of Mechanical Engineering Design VL 2 | Analysis III VL 2 | Fluid Mechanics VL 3 | Statistics and Stochastic Processes in Naval Architecture and Ocean Engineering VL 2 | Ship Design VL 2 | |
| 9 | Electrical Engineering I: Direct Current Networks and Electromagnetic Fields GÜ 2 | Fundamentals of Mechanical Engineering Design HÜ 2 | Analysis III GÜ 1 | Fluid Mechanics HÜ 2 | | Ship Design HÜ 2 | |
| 10 | | | Differential Equations 1 VL 2 | | Fundamentals of Ship Structural Design and Analysis | | |
| 11 | | | Differential Equations 1 GÜ 1 | | Fundamentals of Ship Structural Analysis VL 2 | | |
| 12 | | | Differential Equations 1 HÜ 1 | | Fundamentals of Ship Structural Design VL 2 | | |
| 13 | Mathematics I | Technical Thermodynamics I | | Mathematics IV | Fundamentals of Ship Structural Design GÜ 1 | Stochastics and Ship Dynamics (part 2) | |
| 14 | Linear Algebra I VL 2 | Technical Thermodynamics I VL 2 | Mechanics III (Dynamics) | Complex Functions VL 2 | Fundamentals of Ship Structural Analysis GÜ 1 | Ship Dynamics VL 2 | |
| 15 | Linear Algebra I GÜ 1 | Technical Thermodynamics I HÜ 1 | Mechanics III VL 3 | Complex Functions GÜ 1 | | Ship Dynamics GÜ 1 | |
| 16 | Linear Algebra I HÜ 1 | Technical Thermodynamics I GÜ 1 | Mechanics III GÜ 2 | Complex Functions HÜ 1 | | | |
| 17 | Analysis I VL 2 | | Mechanics III HÜ 1 | Differential Equations 2 VL 2 | | | |
| 18 | Analysis I GÜ 1 | | | Differential Equations 2 GÜ 1 | | | |
| 19 | Analysis I HÜ 1 | | | Differential Equations 2 HÜ 1 | | | |
| 20 | | Mechanics II: Mechanics of Materials | | Mechanics IV (Oscillations, Analytical Mechanics, Multibody Systems, Numerical Mechanics) | Structural Design and Construction of Ships (part 1) | | |
| 21 | | Mechanics II VL 2 | Computer Engineering | Mechanics IV VL 3 | Welding Technology VL 3 | | Bachelor Thesis |
| 22 | | Mechanics II GÜ 2 | Computer Engineering VL 3 | Mechanics IV GÜ 2 | | | |
| 23 | | Mechanics II HÜ 2 | Computer Engineering GÜ 1 | Mechanics IV HÜ 1 | Resistance and Propulsion | | |
| 24 | | | | | Resistance and Propulsion VL 2 | | |
| 25 | | | | | Resistance and Propulsion HÜ 2 | | |
| 26 | | Mathematics II | | Fundamentals of Materials Science (part 2) | | | |
| 27 | | Linear Algebra II VL 2 | | Fundamentals of Materials Science II VL 2 | | | |
| 28 | | Linear Algebra II GÜ 1 | | | | | |
| 29 | Programming in C | Linear Algebra II HÜ 1 | Fundamentals of Materials Science (part 1) | Hydrostatics and Body Plan (part 2) | | | |
| 30 | Programming in C VL 1 | Analysis II VL 2 | Fundamentals of Materials Science I VL 2 | Hydrostatics VL 2 | | | |
| 31 | Programming in C PR 1 | Analysis II HÜ 1 | Physical and Chemical Basics of Materials Science VL 2 | Hydrostatics HÜ 2 | | | |
| 32 | | Analysis II GÜ 1 | Hydrostatics and Body Plan (part 1) | | | | |
| | | | Body Plan PS 2 | | | | |

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.

