

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

Legend:

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	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7
FormHrs/wk	FormHrs/wk	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		Electrical Engineering II: Alternating Current Networks and Basic Devices	Technical Thermodynamics II GÜ 1				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		Computational Fluid Dynamics I		
11			Differential Equations 1 GÜ 1		Computational Fluid Dynamics I VL 2		
12			Differential Equations 1 HÜ 1		Computational Fluid Dynamics I HÜ 2		
13	Mathematics I	Technical Thermodynamics I		Mathematics IV		Stochastics and Ship Dynamics (part 2)	
14	Mathematics I VL 4	Technical Thermodynamics I VL 2		Complex Functions VL 2		Ship Dynamics VL 2	
15	Mathematics I HÜ 2	Technical Thermodynamics I HÜ 1	Engineering Mechanics III (Dynamics)	Complex Functions GÜ 1		Ship Dynamics GÜ 1	
16	Mathematics I GÜ 2	Technical Thermodynamics I GÜ 1	Engineering Mechanics III VL 3	Complex Functions HÜ 1	Fundamentals of Ship Structural Design and Analysis		
17			Engineering Mechanics III GÜ 2	Differential Equations 2 VL 2	Fundamentals of Ship Structural Analysis VL 2		
18			Engineering Mechanics III HÜ 1	Differential Equations 2 GÜ 1	Fundamentals of Ship Structural Design VL 2	Structural Design and Construction of Ships (part 2)	
19		Mathematics II		Differential Equations 2 HÜ 1	Fundamentals of Ship Structural Design GÜ 1	Ship Structural Design VL 2	
20		Mathematics II VL 4	Fundamentals of Materials Science (part 1)	Computational Mechanics	Fundamentals of Ship Structural Analysis GÜ 1	Ship Structural Design GÜ 2	Bachelor Thesis
21	Computer Science for Engineers - Introduction and Overview	Mathematics II HÜ 2	Fundamentals of Materials Science I VL 2	Computational Multibody Dynamics IV 2			
22	Computer Science for Engineers - Introduction and Overview VL 3	Mathematics II GÜ 2	Physical and Chemical Basics of Materials Science VL 2	Computational Mechanics GÜ 2			
23	Computer Science for Engineers - Introduction and Overview GÜ 2			Computational Structural Mechanics IV 2			
24			Hydrostatics and Body Plan (part 1)		Structural Design and Construction of Ships (part 1)		
25			Body Plan PS 2	Fundamentals of Materials Science (part 2)	Welding Technology VL 3		
26				Fundamentals of Materials Science II VL 2			
27	Engineering Mechanics I (Stereostatics)	Engineering Mechanics II (Elastostatics)		Hydrostatics and Body Plan (part 2)	Resistance and Propulsion		
28	Engineering Mechanics I VL 2	Engineering Mechanics II VL 2		Hydrostatics VL 2	Resistance and Propulsion VL 2		
29	Engineering Mechanics I GÜ 2	Engineering Mechanics II GÜ 2		Hydrostatics HÜ 2	Resistance and Propulsion HÜ 2		
30	Engineering Mechanics I HÜ 1	Engineering Mechanics II HÜ 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.

