

Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w21)

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

Specialisation	Computer Science	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
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
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	Advanced Internship AIW/ ES: Preparation SE 1
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	Automata Theory and Formal Languages	Numerical Mathematics I	Software Engineering	
8	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields VL 3	Fundamentals of Mechanical Engineering Design VL 2	Analysis III VL 2	Automata Theory and Formal Languages VL 2	Numerical Mathematics I VL 2	Software Engineering 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	Automata Theory and Formal Languages GÜ 2	Numerical Mathematics I GÜ 2	Software Engineering GÜ 2	
10			Analysis III HÜ 1				
11			Differential Equations 1 VL 2				
12			Differential Equations 1 GÜ 1				
13			Differential Equations 1 HÜ 1				
13	Mathematics I	Technical Thermodynamics I		Stochastics	Functional Programming	Lab Cyber-Physical Systems	
14	Linear Algebra I VL 2	Technical Thermodynamics I VL 2		Stochastics VL 2	Functional Programming VL 2	Lab Cyber-Physical Systems PBL 4	
15	Linear Algebra I GÜ 1	Technical Thermodynamics I HÜ 1		Stochastics GÜ 2	Functional Programming HÜ 2		
16	Linear Algebra I HÜ 1	Technical Thermodynamics I GÜ 1	Mechanics III (Dynamics)		Functional Programming GÜ 2		
17	Analysis I VL 2		Mechanics III VL 3				
18	Analysis I GÜ 1		Mechanics III GÜ 2				
19	Analysis I HÜ 1		Mechanics III HÜ 1				
20		Mechanics II: Mechanics of Materials		Embedded Systems	Computernetworks and Internet Security		Bachelor Thesis
21		Mechanics II VL 2		Embedded Systems VL 3	Computer Networks and Internet Security VL 3		
22	Mechanics I (Statics)	Mechanics II GÜ 2	Discrete Algebraic Structures	Embedded Systems GÜ 1	Computer Networks and Internet Security GÜ 1		
23	Mechanics I VL 2	Mechanics II HÜ 2	Discrete Algebraic Structures VL 2				
24	Mechanics I GÜ 2		Discrete Algebraic Structures GÜ 2				
25	Mechanics I HÜ 1			Graph Theory and Optimization	Seminars Computer Science		
26		Mathematics II		Graph Theory and Optimization VL 2	Introductory Seminar Computer Science II SE 2		
27	Computer Science for Engineers - Introduction and Overview	Linear Algebra II VL 2	Computer Engineering	Graph Theory and Optimization GÜ 2	Introductory Seminar Computer Science I SE 2		
28	Computer Science for Engineers - Introduction and Overview VL 3	Linear Algebra II HÜ 1	Computer Engineering VL 3				
29	Computer Science for Engineers - Introduction and Overview GÜ 2	Linear Algebra II GÜ 1	Computer Engineering GÜ 1				
30		Analysis II VL 2					
31		Analysis II HÜ 1					
32		Analysis II GÜ 1					

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.

