

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

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 T 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	Objectoriented Programming, Algorithms and Data Structures	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	Objectoriented Programming, Algorithms and Data Structures VL 4	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	Objectoriented Programming, Algorithms and Data Structures HÜ 1	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	Objectoriented Programming, Algorithms and Data Structures GÜ 1			
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	Numerical Mathematics I	Operating Systems	
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	Numerical Mathematics I VL 2	Operating Systems 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	Signals and Systems GÜ 2	Numerical Mathematics I GÜ 2	Operating Systems 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	Seminars Computer Science and Mathematics	Lab Cyber-Physical Systems	
14	Linear Algebra I VL 2	Technical Thermodynamics I VL 2		Stochastics VL 2	Seminar Computational Engineering Science SE 2	Lab Cyber-Physical Systems PBL 4	
15	Linear Algebra I GÜ 1	Technical Thermodynamics I HÜ 1		Stochastics GÜ 2	Seminar Computational Mathematics/Computer Science SE 2		
16	Linear Algebra I HÜ 1	Technical Thermodynamics I GÜ 1	Mechanics III (Hydrostatics, Kinematics, Kinetics I)		Seminar Engineering Mathematics/Computer Science SE 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		Graph Theory and Optimization	Computer Architecture		Bachelor Thesis
21		Mechanics II VL 2		Graph Theory and Optimization VL 2	Computer Architecture VL 2		
22	Mechanics I (Statics)	Mechanics II GÜ 2	Computer Engineering	Graph Theory and Optimization GÜ 2	Computer Architecture PBL 2		
23	Mechanics I VL 2	Mechanics II HÜ 2	Computer Engineering VL 3		Computer Architecture GÜ 1		
24	Mechanics I GÜ 2		Computer Engineering GÜ 1				
25	Mechanics I HÜ 1			Embedded Systems	Computernetworks and Internet Security		
26		Mathematics II		Embedded Systems VL 3	Computer Networks and Internet Security VL 3		
27	Programming in C	Linear Algebra II VL 2	Discrete Algebraic Structures	Embedded Systems GÜ 1	Computer Networks and Internet Security GÜ 1		
28	Programming in C VL 1	Linear Algebra II HÜ 1	Discrete Algebraic Structures VL 2				
29	Programming in C PR 1	Linear Algebra II GÜ 1	Discrete Algebraic Structures GÜ 2				
30		Analysis II VL 2					
31	Physics for Engineers (AIW)	Analysis II HÜ 1					
32	Physics for Engineers VL 2	Analysis II GÜ 1					
	Physics for Engineers GÜ 1						

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.

