

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

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))

Semester	Specialisation: Chemical and Bioengineering	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
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
4			Electrical Engineering II: Alternating Current Networks and Basic Devices	Technical Thermodynamics II GÜ 1			
5							
6							
7	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields		Fundamentals of Mechanical Engineering Design	Mathematics III	Fundamentals of Fluid Mechanics	Heat and Mass Transfer	Process and Plant Engineering I
8	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields VL 3		Fundamentals of Mechanical Engineering Design VL 2	Analysis III VL 2	Fundamentals of Fluid Mechanics VL 2	Heat and Mass Transfer VL 2	Process and Plant Engineering I 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 for Process Engineering HÜ 2	Heat and Mass Transfer GÜ 1	Process and Plant Engineering I HÜ 1
10				Analysis III HÜ 1	Fundamentals on Fluid Mechanics GÜ 2	Heat and Mass Transfer HÜ 1	Process and Plant Engineering I GÜ 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		Phase Equilibria Thermodynamics	Thermal Separation Processes	Particle Technology and Solids Process Engineering
14	Linear Algebra I VL 2		Technical Thermodynamics I VL 2		Phase Equilibria Thermodynamics VL 2	Thermal Separation Processes VL 2	Particle Technology I VL 2
15	Linear Algebra I GÜ 1		Technical Thermodynamics I HÜ 1	Engineering Mechanics III (Dynamics)	Phase Equilibria Thermodynamics GÜ 1	Thermal Separation Processes GÜ 2	Particle Technology I GÜ 1
16	Linear Algebra I HÜ 1		Technical Thermodynamics I GÜ 1	Engineering Mechanics III VL 3	Phase Equilibria Thermodynamics HÜ 1	Thermal Separation Processes HÜ 1	Particle Technology I PR 1
17	Analysis I VL 2			Engineering Mechanics III GÜ 2		Separation Processes PR 1	
18	Analysis I GÜ 1			Engineering Mechanics III HÜ 1			
19	Analysis I HÜ 1						
20			Mechanics II: Mechanics of Materials		Fundamentals in Molecular Biology	Chemical Reaction Engineering (part 1)	Chemical Reaction Engineering (part 2)
21			Mechanics II VL 2		Genetics and Molecular Biology VL 2	Chemical Reaction Engineering VL 2	Experimental Course Chemical Engineering PR 2
22			Mechanics II GÜ 2	Measurement Technology for Chemical and Bioprocess Engineering	Genetics and Molecular Biology PBL 1	Chemical Reaction Engineering HÜ 2	
23			Mechanics II HÜ 2	Measurement Technology VL 2	Lab Course in Microbiology and Biochemistry PR 3		
24	Mechanics I (Statics)			Physical Fundamentals of Measurement Technology VL 2			
25	Mechanics I VL 2			Technology PR 2		Material Engineering	
26	Mechanics I GÜ 2			Practical Course Measurement Technology	Biological and Biochemical Fundamentals (part 2)	Material Engineering VL 2	
27	Mechanics I HÜ 1				Fundamental Biological and Biochemical PR 3		
28			Mathematics II			Bioprocess Technology I	
29			Linear Algebra II VL 2	Introduction to Chemical and Bioengineering		Bioprocess Technology I VL 2	
30			Linear Algebra II GÜ 1	Introduction to Chemical and Bioengineering VL 2		Bioprocess Technology I HÜ 2	
31			Linear Algebra II HÜ 1			Bioprocess Technology I - Fundamental PR 2	
32			Analysis II VL 2			Practical Course	
			Analysis II HÜ 1	Biological and Biochemical Fundamentals (part 1)			
			Analysis II GÜ 1	Biological and Biochemical Fundamentals VL 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.

