

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

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

Specialisation	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	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	HÜ 2	Electrical Engineering II: Alternating Current Networks and Basic Devices VL 3	Technical Thermodynamics II HÜ 1	Signals and Systems VL 3	Technical Thermodynamics II HÜ 1	Signals and Systems GÜ 2	Introduction to Control Systems VL 2	Introduction to Management VL 3	Introduction to Management GÜ 2	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 GÜ 1				Introduction to Control Systems GÜ 2		Management Tutorial GÜ 2	Advanced Internship AIW/ ES: Internship-accompanying Seminar SE 1	
4												
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 GÜ 1	Fundamentals of Fluid Mechanics VL 2	Analysis III HÜ 1	Fluid Mechanics for Process Engineering HÜ 2	Heat and Mass Transfer VL 2	Heat and Mass Transfer GÜ 1	Process and Plant Engineering I VL 2	Process and Plant Engineering I HÜ 1	
9	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields GÜ 2		Fundamentals of Mechanical Engineering Design HÜ 2	Analysis III HÜ 1				Heat and Mass Transfer HÜ 1		Process and Plant Engineering I GÜ 1	Process and Plant Engineering I HÜ 1	
10				Differential Equations 1 VL 2								
11				Differential Equations 1 GÜ 1								
12				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	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	Phase Equilibria Thermodynamics HÜ 1	Thermal Separation Processes HÜ 1	Particle Technology I HÜ 1						
17	Analysis I VL 2				Separation Processes PR 1	Particle Technology I PR 2						
18	Analysis I GÜ 1											
19	Analysis I HÜ 1											
20			Mechanics II: Mechanics of Materials		Biochemistry and Microbiology		Chemical Reaction Engineering (part 1)		Chemical Reaction Engineering (part 2)		Bachelor Thesis	
21	Mechanics I (Statics)		Mechanics II VL 2	Mechanics II GÜ 2	Biochemistry VL 2	Chemical Reaction Engineering VL 2	Chemical Reaction Engineering HÜ 2	Experimental Course Chemical Engineering PR 2				
22	Mechanics I VL 2		Mechanics II HÜ 2		Biochemistry PBL 1	Chemical Reaction Engineering HÜ 2						
23	Mechanics I GÜ 2				Microbiology VL 2							
24	Mechanics I HÜ 1				Microbiology PBL 1							
25												
26			Mathematics II		Bioprocess Engineering - Fundamentals		Bioprocess Engineering - Advanced		Environmental Technology (part 2)			
27	Programming in C VL 1		Linear Algebra II VL 2	Bioprocess Engineering - Fundamentals VL 2	Bioprocess Engineering - Fundamentals VL 2	Bioprocess Engineering - Advanced VL 2						
28	Programming in C PR 1		Linear Algebra II GÜ 1	Bioprocess Engineering - Fundamentals HÜ 2	Bioprocess Engineering - Fundamentals HÜ 2	Bioprocess Engineering - Advanced GÜ 2						
29	Physics for Engineers VL 2		Linear Algebra II HÜ 1	Bioprocess Engineering - Fundamental PR 2	Practical Course							
30	Physics for Engineers GÜ 1		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.

