

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

Specialisation	Process Engineering	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	<b>Chemistry</b>	<b>Electrical Engineering II: Alternating Current Networks and Basic Devices</b>	<b>Technical Thermodynamics II</b>	<b>Fundamentals of Fluid Mechanics</b>	<b>Introduction to Control Systems</b>	<b>Foundations of Management</b>	<b>Advanced Internship AIW/ GES</b>
2	Chemistry I VL 2	Electrical Engineering II: Alternating Current Networks and Basic Devices VL 3	Technical Thermodynamics II VL 2	Fundamentals of Fluid Mechanics VL 2	Introduction to Control Systems VL 2	Introduction to Management VL 3	
3	Chemistry II VL 2	Current Networks and Basic Devices VL 3	Technical Thermodynamics II HÜ 1	Fluid Mechanics for Process Engineering HÜ 2	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				
5	Chemistry II HÜ 1						
6							
7	<b>Electrical Engineering I: Direct Current Networks and Electromagnetic Fields</b>	<b>Fundamentals of Mechanical Engineering Design</b>	<b>Mathematics III</b>	<b>Phase Equilibria Thermodynamics</b>	<b>Heat and Mass Transfer</b>	<b>Chemical Reaction Engineering (part 2)</b>	
8	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields VL 3	Fundamentals of Mechanical Engineering Design VL 2	Analysis III VL 2	Phase Equilibria Thermodynamics VL 2	Heat and Mass Transfer VL 2	Experimental Course Chemical Engineering PR 2	
9	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields GÜ 2	Fundamentals of Mechanical Engineering Design HÜ 2	Analysis III GÜ 1	Phase Equilibria Thermodynamics GÜ 1	Heat and Mass Transfer GÜ 1		
10			Analysis III HÜ 1	Phase Equilibria Thermodynamics HÜ 1	Heat and Mass Transfer HÜ 1	<b>Process and Plant Engineering I</b>	
11			Differential Equations 1 VL 2			Process and Plant Engineering I VL 2	
12			Differential Equations 1 GÜ 1			Process and Plant Engineering I HÜ 1	
13	<b>Mathematics I</b>	<b>Technical Thermodynamics I</b>	Differential Equations 1 HÜ 1	<b>Signals and Systems</b>	<b>Thermal Separation Processes</b>	<b>Particle Technology and Solids Process Engineering</b>	
14	Linear Algebra I VL 2	Technical Thermodynamics I VL 2		Signals and Systems VL 3	Thermal Separation Processes VL 2	Particle Technology I VL 2	
15	Linear Algebra I GÜ 1	Technical Thermodynamics I HÜ 1	<b>Mechanics III (Hydrostatics, Kinematics, Kinetics I)</b>	Signals and Systems GÜ 2	Thermal Separation Processes GÜ 2	Particle Technology I GÜ 1	
16	Linear Algebra I HÜ 1	Technical Thermodynamics I GÜ 1	Mechanics III VL 3		Thermal Separation Processes HÜ 1	Particle Technology I PR 2	
17	Analysis I VL 2		Mechanics III GÜ 2	<b>Bioprocess Engineering - Fundamentals</b>	Separation Processes PR 1		
18	Analysis I GÜ 1	<b>Mechanics II: Mechanics of Materials</b>	Mechanics III HÜ 1	Bioprocess Engineering - Fundamentals VL 2	<b>Chemical Reaction Engineering (part 1)</b>	<b>Bachelor Thesis</b>	
19	Analysis I HÜ 1	Mechanics II VL 2		Bioprocess Engineering - Fundamentals HÜ 2	Chemical Reaction Engineering VL 2		
20		Mechanics II GÜ 2	<b>Computer Engineering</b>	Bioprocess Engineering - Fundamental Practical Course PR 2	Chemical Reaction Engineering HÜ 2	<b>Environmental Technology (part 2)</b>	
21	<b>Mechanics I (Statics)</b>	Mechanics II HÜ 2	Computer Engineering VL 3			Practical Exercise Environmental Technology PR 1	
22	Mechanics I VL 2		Computer Engineering GÜ 1			<b>Informatics for Process Engineers</b>	
23	Mechanics I GÜ 2					Numeric and Matlab PR 2	
24	Mechanics I HÜ 1					Informatics for Process Engineers VL 2	
25		<b>Mathematics II</b>				Informatics for Process Engineers GÜ 2	
26		Linear Algebra II VL 2	<b>Fundamentals of Process Engineering and Material Engineering</b>				
27	<b>Programming in C</b>	Linear Algebra II GÜ 1	Introduction into Process Engineering/Bioprocess Engineering VL 2				
28	Programming in C VL 1	Linear Algebra II HÜ 1	Fundamentals of material engineering VL 2				
29	Programming in C PR 1	Analysis II VL 2					
30	<b>Physics for Engineers (AIW)</b>	Analysis II HÜ 1	<b>Physical Chemistry</b>				
31	Physics for Engineers VL 2	Analysis II GÜ 1	Physical Chemistry VL 2				
32	Physics for Engineers GÜ 1		Physical Chemistry PR 2				

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.

