

# Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w18)

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	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	<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>		
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	Electrical Engineering II: Alternating 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	GÜ 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>Process and Plant Engineering I</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	Process and Plant Engineering I	VL 2	
9	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	VL 3	Fundamentals of Mechanical Engineering Design	VL 2	Analysis III	GÜ 1	Phase Equilibria Thermodynamics	GÜ 1	Heat and Mass Transfer	GÜ 1	Process and Plant Engineering I	HÜ 1	
10	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	GÜ 2	Fundamentals of Mechanical Engineering Design	HÜ 2	Analysis III	HÜ 1	Phase Equilibria Thermodynamics	HÜ 1	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	<b>Mathematics I</b>		<b>Technical Thermodynamics I</b>		<b>Mechanics III (Hydrostatics, Kinematics, Kinetics I)</b>		<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 and Solids Process Engineering		
15	Linear Algebra I	GÜ 1	Technical Thermodynamics I	HÜ 1			Signals and Systems	GÜ 2	Thermal Separation Processes	GÜ 2	Particle Technology I	VL 2	
16	Linear Algebra I	HÜ 1	Technical Thermodynamics I	GÜ 1			Thermal Separation Processes	HÜ 1	Thermal Separation Processes	HÜ 1	Particle Technology I	GÜ 1	
17	Analysis I	VL 2					Separation Processes	PR 1	Separation Processes	PR 1	Particle Technology I	PR 1	
18	Analysis I	GÜ 1											
19	Analysis I	HÜ 1											
20			<b>Mechanics II: Mechanics of Materials</b>		<b>Computer Engineering</b>		<b>Biochemistry and Microbiology</b>		<b>Chemical Reaction Engineering (part 1)</b>		<b>Chemical Reaction Engineering (part 2)</b>		
21		Mechanics II	VL 2	Computer Engineering			VL 3	Biochemistry	VL 2	Chemical Reaction Engineering	VL 2	Experimental Course Chemical Engineering	PR 2
22		Mechanics II	HÜ 2	Computer Engineering			GÜ 1	Biochemistry	PBL 1	Chemical Reaction Engineering	HÜ 2		
23							Microbiology	VL 2		<b>Environmental Technology (part 2)</b>			
24							Microbiology	PBL 1		Practical Exercise Environmental Technology	PR 1		
25									<b>Bioprocess Engineering - Advanced</b>				
26									Bioprocess Engineering - Advanced	VL 2			
27									Bioprocess Engineering - Advanced	GÜ 2			
27	<b>Programming in C</b>		<b>Mathematics II</b>		<b>Fundamentals of Process Engineering and Material Engineering</b>		<b>Bioprocess Engineering - Fundamentals</b>						
28	Programming in C	VL 1	Linear Algebra II	VL 2			Bioprocess Engineering - Fundamentals	VL 2					
29	Programming in C	PR 1	Linear Algebra II	HÜ 1	Introduction into Process Engineering/Bioprocess Engineering	VL 2	Bioprocess Engineering - Fundamentals	HÜ 2					
30			Analysis II	VL 2	Fundamentals of material engineering	VL 2	Bioprocess Engineering - Fundamental	PR 2					
31			Analysis II	HÜ 1			Practical Course						
32			Analysis II	GÜ 1					<b>Environmental Technology (part 1)</b>				
									Environmental Technologie	VL 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.

