

# Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w19)

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	<b>Chemistry</b>		<b>Electrical Engineering II: Alternating Current Networks and Basic Devices</b>		<b>Technical Thermodynamics II</b>		<b>Signals and Systems</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	Signals and Systems	VL 3	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	Signals and Systems	GÜ 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>Fundamentals of Fluid Mechanics</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	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	VL 3	Fundamentals of Mechanical Engineering Design	VL 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	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
11					Differential Equations 1	VL 2						
12					Differential Equations 1	GÜ 1						
13	<b>Mathematics I</b>		<b>Technical Thermodynamics I</b>		<b>Phase Equilibria Thermodynamics</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	Phase Equilibria Thermodynamics	VL 2	Thermal Separation Processes	VL 2	Particle Technology and Solids Process Engineering			
15	Linear Algebra I	GÜ 1	Technical Thermodynamics I	HÜ 1	Phase Equilibria Thermodynamics	GÜ 1	Thermal Separation Processes	GÜ 2	Particle Technology I	VL 2		
16	Linear Algebra I	HÜ 1	Technical Thermodynamics I	GÜ 1	Phase Equilibria Thermodynamics	HÜ 1	Thermal Separation Processes	HÜ 1	Particle Technology I	GÜ 1		
17	Analysis I	VL 2			<b>Mechanics III (Dynamics)</b>	VL 3	Separation Processes	PR 1	Particle Technology I	PR 2		
18	Analysis I	GÜ 1			Mechanics III	GÜ 2						
19	Analysis I	HÜ 1			Mechanics III	HÜ 1						
20			<b>Mechanics II: Mechanics of Materials</b>		<b>Biochemistry and Microbiology</b>		<b>Chemical Reaction Engineering (part 1)</b>		<b>Chemical Reaction Engineering (part 2)</b>		<b>Bachelor Thesis</b>	
21	<b>Mechanics I (Statics)</b>		Mechanics II	VL 2	Biochemistry	VL 2	Chemical Reaction Engineering	VL 2	Experimental Course Chemical Engineering	PR 2		
22	Mechanics I	VL 2	Mechanics II	GÜ 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			<b>Mathematics II</b>		<b>Computer Engineering</b>		<b>Bioprocess Engineering - Advanced</b>		<b>Environmental Technology (part 2)</b>			
27	<b>Programming in C</b>		Linear Algebra II	VL 2	Computer Engineering	VL 3	Bioprocess Engineering - Advanced	VL 2	Practical Exercise Environmental Technology	PR 1		
28	Programming in C	VL 1	Linear Algebra II	GÜ 1	Computer Engineering	GÜ 1	Bioprocess Engineering - Advanced	GÜ 2				
29	Programming in C	PR 1	Linear Algebra II	HÜ 1								
30	Physics for Engineers (AIW)	VL 2	Analysis II	VL 2	<b>Fundamentals of Process Engineering and Material Engineering</b>		<b>Bioprocess Engineering - Fundamentals</b>		<b>Environmental Technology (part 1)</b>			
31	Physics for Engineers	VL 2	Analysis II	VL 2	Introduction into Process Engineering/Bioprocess Engineering	VL 2	Bioprocess Engineering - Fundamentals	VL 2	Environmental Technologie	VL 2		
32	Physics for Engineers	GÜ 1	Analysis II	HÜ 1	Fundamentals of material engineering	VL 2	Bioprocess Engineering - Fundamental	PR 2				
							Practical Course					

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.

