

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 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	
1	Chemistry		Electrical Engineering II: Alternating Current Networks and Basic Devices		Technical Thermodynamics II		Fundamentals of Fluid Mechanics		Introduction to Control Systems		Foundations of Management	
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		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		Technical Thermodynamics II	GÜ 1						
5	Chemistry II	HÜ 1										
6												
7	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields		Fundamentals of Mechanical Engineering Design		Mathematics III		Phase Equilibria Thermodynamics		Heat and Mass Transfer		Chemical Reaction Engineering (part 2)	
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		Fundamentals of Mechanical Engineering Design		Analysis III	GÜ 1	Phase Equilibria Thermodynamics	GÜ 1	Heat and Mass Transfer	GÜ 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	
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	Mathematics I		Technical Thermodynamics I		Signals and Systems		Thermal Separation Processes				Particle Technology and Solids Process Engineering	
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	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			Thermal Separation Processes	HÜ 1			Particle Technology I	PR 2
17	Analysis I	VL 2			Mechanics III (Hydrostatics, Kinematics, Kinetics I)			Separation Processes	PR 1			
18	Analysis I	GÜ 1			Mechanics III	VL 3						
19	Analysis I	HÜ 1			Mechanics III	GÜ 2						
20			Mechanics II: Mechanics of Materials		Biochemistry and Microbiology		Chemical Reaction Engineering (part 1)				Bachelor Thesis	
21	Mechanics I (Statics)		Mechanics II	VL 2	Biochemistry	VL 2	Chemical Reaction Engineering	VL 2				
22	Mechanics I	VL 2	Mechanics II	GÜ 2	Biochemistry	PBL 1	Chemical Reaction Engineering	HÜ 2				
23	Mechanics I	GÜ 2	Mechanics II	HÜ 2	Microbiology	VL 2						
24	Mechanics I	HÜ 1			Microbiology	PBL 1						
25			Mathematics II		Computer Engineering		Bioprocess Engineering - Advanced					
26			Linear Algebra II	VL 2	Computer Engineering	VL 3	Bioprocess Engineering - Advanced	VL 2				
27			Linear Algebra II	GÜ 1	Computer Engineering	GÜ 1	Bioprocess Engineering - Advanced	GÜ 2				
28	Programming in C		Linear Algebra II	HÜ 1	Fundamentals of Process Engineering and Material Engineering		Bioprocess Engineering - Fundamentals					
29	Programming in C	VL 1	Analysis II	VL 2	Introduction into Process Engineering/Bioprocess Engineering	VL 2	Bioprocess Engineering - Fundamentals	VL 2				
30	Programming in C	PR 1	Analysis II	HÜ 1	Fundamentals of material engineering	VL 2	Bioprocess Engineering - Fundamental	PR 2				
31	Physics for Engineers (AIW)		Analysis II	GÜ 1								
32	Physics for Engineers	VL 2			Physical Chemistry							
	Physics for Engineers	GÜ 1			Physical Chemistry	VL 2						
					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.

