

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

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							
	Form	Hrs/wk	Form	Hrs/wk	Form	Hrs/wk	Form	Hrs/wk	Form	Hrs/wk	Form	Hrs/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	GÜ 2	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		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		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	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	GÜ 2	Fundamentals of Mechanical Engineering Design	HÜ 2	Analysis III	GÜ 1	Phase Equilibria Thermodynamics	GÜ 1	Heat and Mass Transfer	GÜ 1	Process and Plant Engineering I	HÜ 1						
10					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	Mathematics I		Technical Thermodynamics I		Mechanics III (Hydrostatics, Kinematics, Kinetics 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					Separation Processes	PR 1	Particle Technology I	PR 1								
18	Analysis I	GÜ 1																
19	Analysis I	HÜ 1																
20			Mechanics II: Mechanics of Materials		Computer Engineering		Biochemistry and Microbiology		Chemical Reaction Engineering (part 1)		Chemical Reaction Engineering (part 2)							
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 I (Statics)	VL 2	Mechanics II	HÜ 2			Computer Engineering	GÜ 1	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			Mathematics II		Fundamentals of Process Engineering and Material Engineering		Bioprocess Engineering - Fundamentals		Bioprocess Engineering - Advanced									
26		Linear Algebra II	VL 2	Introduction into Process Engineering/Bioprocess Engineering									VL 2	Bioprocess Engineering - Fundamentals	VL 2	Bioprocess Engineering - Advanced	VL 2	
27	Programming in C	VL 1	Linear Algebra II	GÜ 1									Engineering/Bioprocess Engineering	HÜ 2	Bioprocess Engineering - Fundamental	HÜ 2	Bioprocess Engineering - Advanced	GÜ 2
28	Programming in C	PR 1	Linear Algebra II	HÜ 1	Fundamentals of material engineering	VL 2												
29	Physics for Engineers (AIW)	VL 2	Analysis II	VL 2														
30	Physics for Engineers	GÜ 1	Analysis II	HÜ 1														
31			Analysis II	GÜ 1														
32																		

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.

