

Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w16)

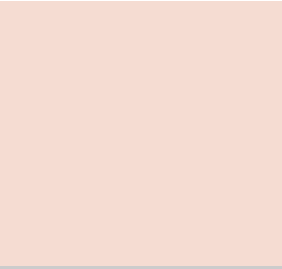
Sample course plan A Bachelor General Engineering Science (German program, 7 semester) (AIWS(7))
Specialisation Bioprocess Engineering

Legend:

Core qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
Core qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

LP	Semester 1	Form/hrs/Week	Semester 2	Form/hrs/Week	Semester 3	Form/hrs/Week	Semester 4	Form/hrs/Week	Semester 5	Form/hrs/Week	Semester 6	Form/hrs/Week	Semester 7	Form/hrs/Week							
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		Advanced Internship GES								
2	Chemistry I	VL 2	Electrical Engineering II: Alternating Current Networks and Basic Devices UE 2	Technical Thermodynamics II	VL 2	Fundamentals of Fluid Mechanics HÜ 2	Introduction to Control Systems UE 2	Introduction to Management HÜ 2	Introduction to Control Systems UE 2	Introduction to Management HÜ 2	Management Tutorial HÜ 2	Management HÜ 2									
3	Chemistry II	VL 2		Technical Thermodynamics II	HÜ 1									Fluid Mechanics for Process Engineering	HÜ 2	Introduction to Control Systems	UE 2	Management Tutorial	HÜ 2	Management	VL 3
4	Chemistry I	HÜ 1		Electrical Engineering II: Alternating Current Networks and Basic Devices	UE 2									Technical Thermodynamics II	UE 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		Thermal Separation Processes (part 2)		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	Separation Processes	PR 1									
9	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	UE 2	Fundamentals of Mechanical Engineering Design	HÜ 2	Analysis III	HÜ 1	Phase Equilibria Thermodynamics	UE 1	Heat and Mass Transfer	UE 1	Heat and Mass Transfer	HÜ 1									
10					Differential Equations 1	VL 2	Phase Equilibria Thermodynamics	HÜ 1	Heat and Mass Transfer	HÜ 1	Experimental Course	PR 2									
11					Differential Equations 1	UE 1	Phase Equilibria Thermodynamics	HÜ 1			Chemical Engineering										
12					Differential Equations 1	HÜ 1					Chemical Engineering										
13	Mathematics I		Technical Thermodynamics I				Signals and Systems		Thermal Separation Processes (part 1)		Process and Plant Engineering I										
14	Linear Algebra I	VL 2	Technical Thermodynamics I	VL 2			Signals and Systems	VL 3	Thermal Separation Processes	VL 2	Process and Plant Engineering I	VL 2									
15	Linear Algebra I	UE 1	Technical Thermodynamics I	HÜ 1	Mechanics III (Hydrostatics, Kinematics, Kinetics I)		Signals and Systems	HÜ 1	Thermal Separation Processes	UE 2	Process and Plant Engineering I	HÜ 1									
16	Linear Algebra I	HÜ 1	Technical Thermodynamics I	UE 1	Mechanics III	VL 3			Thermal Separation Processes	HÜ 1	Process and Plant Engineering I	UE 1									
17	Analysis I	VL 2	Technical Thermodynamics I	UE 1	Mechanics III	UE 2			Thermal Separation Processes	HÜ 1	Particle Technology and Solids Process Engineering										
18	Analysis I	UE 1			Mechanics III	HÜ 1					Particle Technology I	VL 2									
19	Analysis I	HÜ 1									Particle Technology I	UE 1									
20			Mechanics II: Mechanics of Materials				Biochemistry and Microbiology		Chemical Reaction Engineering (part 1)		Particle Technology I	PR 2									
21	Mechanics I (Statics)		Mechanics II	VL 2	Computer Engineering		Biochemistry	VL 2	Chemical Reaction Engineering	VL 2											
22	Mechanics I	VL 2	Mechanics II	UE 2	Computer Engineering	VL 3	Biochemistry	PBL1	Chemical Reaction Engineering	HÜ 2											
23	Mechanics I	UE 2	Mechanics II	HÜ 2	Computer Engineering	UE 1	Microbiology	VL 2													
24	Mechanics I	HÜ 1					Microbiology	PBL1													
25									Bioprocess Engineering - Advanced												
26			Mathematics II				Bioprocess Engineering - Fundamentals		Bioprocess Engineering	VL 2											
			Linear Algebra II	VL 2					Bioprocess Engineering	UE 2											

27	Programming in C Programming in C VL 1 Programming in C PR 1 Physics for Engineers (AIW) Physics for Engineers VL 2 Physics for Engineers UE 1	Linear Algebra II	UE 1	Fundamentals of Process Engineering Introduction into Process Engineering/Bioprocess Engineering VL 2 Fundamentals of material engineering VL 2 Physical Chemistry Physical Chemistry VL 2 Physical Chemistry PR 2	Bioprocess Engineering - Fundamentals VL 2	- Advanced
28		Linear Algebra II	HÜ 1		Bioprocess Engineering - Fundamentals HÜ 2	
		Analysis II	VL 2		Bioprocess Engineering - Fundamentals PR 2	
		Analysis II	HÜ 1		Bioprocess Engineering - Fundamental Practical Course	
		Analysis II	UE 1			
29						
30						
31						
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.