Course of Study General Engineering Science (English program, 7 semester) (Study Cohort w17)

Sample course plan B Bachelor General Engineering Science (English program, 7 semester) (GESBS(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/wk	Semester 2	Form	Hrs/wk	Semester 3	Form	Hrs/wk	Semester 4	Form	Hrs/wk	Semester 5	Form	Hrs/wk	Semester 6	Form	Hrs/wk	Semester 7	Form	Hrs/wk
1	**Chemistry (GES)**			**Technical Thermodynamics I**			**Technical Thermodynamics II**			**Fundamentals of Fluid Mechanics**			**Introduction to Control Systems**			**Foundations of Management**			**Advanced Internship AIW/ GES**		
2	Chemistry I	VL	2	Technical Thermodynamics I	VL	2	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	Technical Thermodynamics I	HÜ	1	Technical Thermodynamics II	HÜ	1	Fluid Mechanics for Process Engineering	HÜ	2	Introduction to Control Systems	UE	2	Management Tutorial	HÜ	2			
4	Chemistry I	HÜ	1	Technical Thermodynamics I	UE	1	Technical Thermodynamics II	UE	1												
5	Chemistry II	HÜ	1																		
6																					
7	**Linear Algebra**			**Mathematical Analysis**			**Mathematics III**			**Phase Equilibria Thermodynamics**			**Heat and Mass Transfer**			**Chemical Reaction Engineering (part 2)**					
8	Linear Algebra	VL	4	Mathematical Analysis	VL	4	Analysis III	VL	2	Phase Equilibria Thermodynamics	VL	2	Heat and Mass Transfer	VL	2	Experimental Course Chemical Engineering	PR	2			
9	Linear Algebra	HÜ	2	Mathematical Analysis	HÜ	2	Analysis III	UE	1	Phase Equilibria Thermodynamics	UE	1	Heat and Mass Transfer	UE	1	**Process and Plant Engineering I**					
10	Linear Algebra	UE	2	Mathematical Analysis	UE	2	Analysis III	HÜ	1	Phase Equilibria Thermodynamics	HÜ	1	Heat and Mass Transfer	HÜ	1	Process and Plant Engineering I	VL	2			
11							Differential Equations 1	VL	2	**Signals and Systems**			**Thermal Separation Processes**			Process and Plant Engineering I	HÜ	1			
12							Differential Equations 1	UE	1	Signals and Systems	VL	3	Thermal Separation Processes	VL	2	Process and Plant Engineering I	UE	1			
13							Differential Equations 1	HÜ	1	Signals and Systems	UE	2	Thermal Separation Processes	UE	2	**Particle Technology and Solids Process Engineering**					
14													Thermal Separation Processes	HÜ	1	Particle Technology I	VL	2			
15	**Electrical Engineering I**			**Electrical Engineering II**			**Mechanics III (GES)**						Separation Processes	PR	1	Particle Technology I	UE	1			
16	Electrical Engineering I	VL	3	Electrical Engineering II	VL	3	Mechanics III	HÜ	1							Particle Technology I	PR	2			
17							Mechanics III	UE	2												
18	Electrical Engineering I	UE	2	Electrical Engineering II	UE	2	Mechanics III	VL	3												
19										**Biochemistry and Microbiology**			**Chemical Reaction Engineering (part 1)**			**Environmental Technology (part 2)**			**Bachelor Thesis**		
20										Biochemistry	VL	2	Chemical Reaction Engineering	VL	2	Practical Exercise Environmental Technology	PR	1			
21	**Mechanics I (GES)**			**Mechanics II (GES)**			**Computer Engineering**			Biochemistry	PBL	1	Chemical Reaction Engineering	HÜ	2						
22	Mechanics I	VL	2	Mechanics II	VL	2	Computer Engineering	VL	3	Microbiology	VL	2									
23	Mechanics I	HÜ	3	Mechanics II	HÜ	2	Computer Engineering	UE	1	Microbiology	PBL	1									
24													**Bioprocess Engineering - Advanced**								
25										**Bioprocess Engineering - Fundamentals**			Bioprocess Engineering -	VL	2						
26																					
27	**Programming in C**			**Fundamentals of**			**Fundamentals of Process**			Bioprocess	VL	2	Advanced								

28	Programming in C VL 1 Programming in C PR 1	**Mechanical Engineering (GES)** Fundamentals of Mechanical Engineering VL 2 Fundamentals of Mechanical Engineering UE 2	**Engineering and Material Engineering** Introduction into Process Engineering/Bioprocess Engineering VL 2 Fundamentals of material engineering VL 2	Engineering - Fundamentals Bioprocess Engineering- Fundamentals HÜ 2 Bioprocess Engineering - Fundamental Practical Course PR 2	Bioprocess Engineering - Advanced UE 2	
29	**Physics for Engineers (GES)** Physics for Engineers VL 2 Physics for Engineers UE 1				**Environmental Technology (part 1)** Environmental Technologie VL 2	
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.