

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

Sample course plan C 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	Semester 2	Form/hrs	Semester 3	Form/hrs	Semester 4	Form/hrs	Semester 5	Form/hrs	Semester 6	Form/hrs	Semester 7	Form/hrs/wk													
1	Chemistry (GES)	VL 2	Fundamentals of Mechanical Engineering Design	VL 2	Technical Thermodynamics II	VL 2	Fundamentals of Fluid Mechanics	VL 2	Introduction to Control Systems	VL 2	Foundations of Management	VL 3	Advanced Internship GES														
2														Chemistry I													
3														Chemistry II		Fundamentals of Mechanical Engineering Design		Technical Thermodynamics II		Fundamentals of Fluid Mechanics		Introduction to Control Systems		Introduction to Management			
4														Chemistry 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		
5														Chemistry II	HÜ 1	Fundamentals of Mechanical Engineering Design	HÜ 2	Technical Thermodynamics II	UE 1								
6																		Technical Thermodynamics II									
7	Linear Algebra	VL 4	Technical Thermodynamics I	VL 2	Mathematics III	VL 2	Phase Equilibria Thermodynamics	VL 2	Heat and Mass Transfer	VL 2	Thermal Separation Processes (part 2)	PR 1	Advanced Internship GES														
8														Linear Algebra	HÜ 2	Technical Thermodynamics I	HÜ 1	Analysis III	UE 1	Phase Equilibria Thermodynamics	UE 1	Heat and Mass Transfer	UE 1	Separation Processes			
9														Linear Algebra	UE 2	Technical Thermodynamics I	UE 1	Analysis III	HÜ 1	Phase Equilibria Thermodynamics	UE 1	Heat and Mass Transfer	HÜ 1	Chemical Reaction Engineering (part 2)			
10																Technical Thermodynamics I	UE 1	Differential Equations 1	VL 2	Phase Equilibria Thermodynamics	HÜ 1			Experimental Course Chemical Engineering	PR 2		
11																		Differential Equations 1	UE 1	Phase Equilibria Thermodynamics	HÜ 1						
12																		Differential Equations 1	HÜ 1					Process and Plant Engineering I			
13																								Process and Plant Engineering I	VL 2		
14																Mathematical Analysis				Signals and Systems		Thermal Separation Processes (part 1)		Process and Plant Engineering I	HÜ 1		
15														Electrical Engineering I	VL 3	Mathematical Analysis	HÜ 2	Mechanics III (GES)	HÜ 1		VL 3	Thermal Separation Processes	VL 2	Process and Plant Engineering I	UE 1	Advanced Internship GES	
16																											Electrical Engineering I
17	Electrical Engineering I	UE 2			Mechanics III	VL 3		Thermal Separation Processes	HÜ 1	Particle Technology and Solids Process Engineering																	
18								Thermal Separation Processes	HÜ 1	Particle Technology I	VL 2																
19											Particle Technology I	UE 1															
20							Biochemistry and Microbiology		Chemical Reaction Engineering (part 1)		Particle Technology I	PR 2	Bachelor Thesis														
21	Mechanics I (GES)	VL 2	Electrical Engineering II	VL 3	Computer Engineering	VL 3		VL 2	Chemical Reaction Engineering	VL 2	Advanced Internship GES		Bachelor Thesis														
22														Mechanics I	HÜ 3	Electrical Engineering II	UE 2	Computer Engineering	UE 1	Biochemistry	PBL1	Chemical Reaction Engineering	HÜ 2				
23														Mechanics I	HÜ 3	Electrical Engineering II	UE 2	Computer Engineering	UE 1	Microbiology	PBL 2	Chemical Reaction Engineering	HÜ 2				
24																				Microbiology	PBL 1	Bioprocess Engineering - Advanced		Environmental Technology			
25																						Bioprocess Engineering - Advanced	VL 2	Environmental Assessment	VL 2		
26																				Bioprocess Engineering - Fundamentals		Bioprocess Engineering - Advanced	UE 2	Environmental Assessment	UE 1		

27	Programming in C Programming in C VL 1 Programming in C PR 1	Mechanics II (GES) Mechanics II VL 2 Mechanics II HÜ 2	Fundamentals of Process Engineering Introduction into Process Engineering/Bioprocess Engineering VL 2 Fundamentals of material engineering VL 2	Bioprocess Engineering - Fundamentals VL 2	
28				Bioprocess Engineering- Fundamentals HÜ 2 Bioprocess Engineering - Fundamental Practical Course PR 2	
29	Physics for Engineers (GES) Physics for Engineers VL 2 Physics for Engineers UE 1				
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.