

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

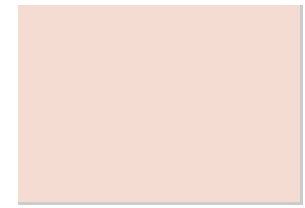
Sample course plan A Bachelor General Engineering Science (English program, 7 semester) (GESBS(7))
Specialisation Bioprocess Engineering

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				Particle Technology and Solids Process Engineering																	
18										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													
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	VL 2					
24																					Microbiology	PBL1	Bioprocess Engineering - Advanced				
25									Bioprocess Engineering - Advanced	VL 2																	
26							Bioprocess Engineering - Fundamentals		Bioprocess Engineering - Advanced	UE 2																	
27	Programming in C		Mechanics II (GES)		Fundamentals of Process Engineering		Bioprocess Engineering - Fundamentals	VL 2	Bioprocess Engineering - Advanced																		
28	Programming in C	VL 1	Mechanics II	VL 2	Engineering		- Fundamentals																				

	Programming in C	PR 1	Mechanics II	HÜ 2	Introduction into Process Engineering/Bioprocess Engineering	VL 2	Bioprocess Engineering- Fundamentals	HÜ 2
29	Physics for Engineers (GES)				Fundamentals of material engineering	VL 2	Bioprocess Engineering - Fundamental Practical Course	PR 2
	Physics for Engineers	VL 2						
	Physics for Engineers	UE 1						
30					Physical Chemistry			
31					Physical Chemistry	VL 2		
32					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.