

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

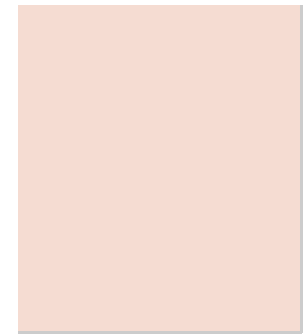
Sample course plan B Bachelor General Engineering Science (English program, 7 semester) (GESBS(7))
Specialisation Bioprocess Engineering

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	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		Differential Equations 1	VL 2	Phase Equilibria Thermodynamics				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	Biochemistry	PBL1	Chemical Reaction Engineering	HÜ 2																	
22														Mechanics I	HÜ 3	Electrical Engineering II	UE 2	Computer Engineering	UE 1	Biochemistry	PBL1	Chemical Reaction Engineering					
23														Mechanics I	HÜ 3			Computer Engineering	UE 1	Microbiology	PBL1						
24							Microbiology	PBL1	Bioprocess Engineering - Advanced		Environmental Technology (part 2)																
									Bioprocess Engineering - Advanced	VL 2	Practical Exercise Environmental Technology	PR 1															
									Bioprocess Engineering - Advanced	UE 2																	

25						
26						
27						
28	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 VL 2 Engineering/Bioprocess Engineering VL 2 Fundamentals of material engineering VL 2	Bioprocess Engineering - Fundamentals Bioprocess Engineering - Fundamentals VL 2 Bioprocess Engineering- Fundamentals HÜ 2 Bioprocess Engineering - Fundamental Practical Course PR 2		Environmental Technology (part 1) Environmental Technologie VL 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.