

Course of Study General Engineering Science (English program, 7 semester) (Study Cohort w18)

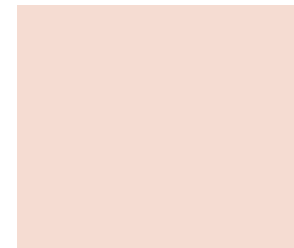
Sample course plan B Bachelor General Engineering Science (English program, 7 semester) (GESBS(7))
Specialisation Bioprocess Engineering

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	Semester 2	Form	Semester 3	Form	Semester 4	Form	Semester 5	Form	Semester 6	Form	Semester 7	Form							
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		Chemistry II		VL 2		Chemistry I		HÜ 1		Chemistry II	HÜ 1	Introduction to Control Systems	VL 2	Introduction to Management	VL 3		
3		Chemistry I		HÜ 1		Chemistry II		HÜ 1		Technical Thermodynamics I		UE 1		Technical Thermodynamics II	UE 1	Introduction to Control Systems	UE 2	Management Tutorial	UE 2		
4		Chemistry II		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		
5		Chemistry I		HÜ 1		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	UE 2		
6		Chemistry II		HÜ 1		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	UE 2		
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	Experimental Course Chemical Engineering	PR 2		
10		Linear Algebra		UE 2		Mathematical Analysis		UE 2		Analysis III		HÜ 1		Phase Equilibria Thermodynamics	UE 1	Heat and Mass Transfer	HÜ 1	Process and Plant Engineering I			
11										Differential Equations 1		VL 2		Phase Equilibria Thermodynamics	HÜ 1	Heat and Mass Transfer	HÜ 1	Process and Plant Engineering I	VL 2		
12										Differential Equations 1		UE 1		Phase Equilibria Thermodynamics	HÜ 1	Heat and Mass Transfer	HÜ 1	Process and Plant Engineering I	HÜ 1		
13										Differential Equations 1		HÜ 1		Signals and Systems		Thermal Separation Processes		Particle Technology and Solids Process Engineering			
14														Signals and Systems	VL 3	Thermal Separation Processes	VL 2	Particle Technology I	VL 2		
15													Signals and Systems	UE 2	Thermal Separation Processes	UE 2	Particle Technology I	UE 1			
16	Electrical Engineering I		Electrical Engineering II		Mechanics III (GES)		Biochemistry and Microbiology		Chemical Reaction Engineering (part 1)		Environmental Technology (part 2)										
17		Electrical Engineering I		VL 3		Electrical Engineering II		VL 3		Mechanics III		HÜ 1	Biochemistry	VL 2	Chemical Reaction Engineering	VL 2	Particle Technology I	PR 2			
18		Electrical Engineering I		UE 2		Electrical Engineering II		UE 2		Mechanics III		UE 2	Biochemistry	PBL1	Chemical Reaction Engineering	HÜ 2	Particle Technology I	UE 1			
19					Mechanics III	VL 3		Microbiology		VL 2		Chemical Reaction Engineering	HÜ 2	Particle Technology I	PR 2						
20								Microbiology		PBL1		Chemical Reaction Engineering	HÜ 2	Particle Technology I	PR 2						
21	Mechanics I (GES)		Mechanics II (GES)		Computer Engineering			Biochemistry and Microbiology				Chemical Reaction Engineering (part 1)		Environmental Technology (part 2)							
22		Mechanics I		VL 2		Mechanics II				VL 2			Computer Engineering		VL 3	Biochemistry	VL 2	Chemical Reaction Engineering	VL 2	Practical Exercise Environmental Technology	PR 1
23		Mechanics I		HÜ 3		Mechanics II				HÜ 2			Computer Engineering		UE 1	Biochemistry	PBL1	Chemical Reaction Engineering	HÜ 2	Practical Exercise Environmental Technology	PR 1
24																Microbiology	VL 2	Chemical Reaction Engineering	HÜ 2	Practical Exercise Environmental Technology	PR 1
25											Microbiology		PBL1		Chemical Reaction Engineering	HÜ 2	Practical Exercise Environmental Technology	PR 1			
26																	Practical Exercise Environmental Technology	PR 1			
27	Programming in C		Fundamentals of		Fundamentals of Process		Bioprocess Engineering - Fundamentals			Bioprocess Engineering - Advanced											
							Bioprocess		VL 2	Bioprocess Engineering - Advanced	VL 2										

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