Course of Study General Engineering Science (English program) (Study Cohort w14)

Sample course plan - Bachelor General Engineering Science (English program) (GESBS)
Specialisation Chemical 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	FormHrs/wk	Semester 2	FormHrs/wk	Semester 3	FormHrs/wk	Semester 4	FormHrs/wk	Semester 5	FormHrs/wk	Semester 6	FormHrs/wk
1	**Chemistry (GES)**		**Physics for Engineers (GES) (part 2)**		**Technical Thermodynamics II**		**Physical Chemistry (part 2)**		**Introduction to Control Systems**		**Foundations of Management**	
2	Chemistry I	VL 2	Physics-Lab for ET/IIW-Engineers	PR 1	Technical Thermodynamics II	VL 2	Environmental Assessment	VL 2	Introduction to Control Systems	VL 2	Introduction to Management	VL 4
3	Chemistry II	VL 2	**Fundamentals of Mechanical Engineering Design**		Technical Thermodynamics II	HÜ 1	**Fundamentals of Fluid Mechanics**		Introduction to Control Systems	UE 2	Project Entrepreneurship	POL 2
4	Chemistry I	HÜ 1	Fundamentals of Mechanical Engineering Design	VL 2	Technical Thermodynamics II	UE 1	Fundamentals of Fluid Mechanics	VL 2				
5	Chemistry II	HÜ 1	Fundamentals of Mechanical Engineering Design	HÜ 2			Exercises in Fluid Mechanics for Process Engineering	HÜ 1				
6												
7	**Linear Algebra**				**Computer Engineering**				**Heat and Mass Transfer**		**Thermal Separation Processes (part 2)**	
8	Linear Algebra	VL 4			Computer Engineering	VL 3			Heat and Mass Transfer	VL 2	Separation Processes	PR 1
9	Linear Algebra	HÜ 2	**Technical Thermodynamics I**		Computer Engineering	UE 1	**Phase Equilibria Thermodynamics**		Heat and Mass Transfer	UE 1	**Chemical Reaction Engineering (part 2)**	
10	Linear Algebra	UE 2	Technical Thermodynamics I	VL 2			Thermodynamics III	VL 2			Experimental Course Chemical Engineering	PR 2
11			Technical Thermodynamics I	HÜ 1			Thermodynamics III	UE 1			**Process and Plant Engineering I**	
12			Technical Thermodynamics I	UE 1			Thermodynamics III	HÜ 1			Process and Plant Engineering I	VL 2
13					**Mathematics III**				**Thermal Separation Processes (part 1)**		Process and Plant Engineering I	HÜ 1
14					Analysis III	VL 2			Thermal Separation Processes	VL 3	Process and Plant Engineering I	UE 1
15	**Electrical Engineering I**		**Mathematical Analysis**		Analysis III	UE 1	**Signals and Systems**		Thermal Separation Processes	UE 2		
16	Electrical Engineering I	VL 3	Mathematical Analysis	VL 4	Analysis III	HÜ 1	Signals and Systems	VL 3	Thermal Separation Processes	HÜ 1	**Particle Technology and Solids Process Engineering**	
17	Electrical Engineering I	UE 2	Mathematical Analysis	HÜ 2	Differential Equations 1	VL 2	Signals and Systems	HÜ 1			Particle Technology I	VL 2
18			Mathematical Analysis	UE 2	Differential Equations 1	UE 1			**Chemical Reaction Engineering (part 1)**		Particle Technology I	UE 1
19					Differential Equations 1	HÜ 1			Chemical Reaction Engineering	VL 2	Particle Technology I	PR 2
20									Chemical Reaction Engineering	HÜ 2		
21	**Mechanics I (GES)**				**Mechanics III (GES)**		**Practical Training in Process Engineering (part 1)**					
22	Mechanics I	VL 2			Mechanics III	HÜ 1	Practical Training in Measurement Techniques	PR 3	**Practical Training in Process Engineering (part 2)**		**Bachelor Thesis**	
23	Mechanics I	HÜ 3			Mechanics III	UE 2			Measurement Methods in Process Engineering	VL 2		
24			**Electrical Engineering II**		Mechanics III	VL 3						
25			Electrical Engineering II	VL 3			**Bioprocess Engineering - Fundamentals**					
26			Electrical Engineering II	UE 2			Bioprocess Engineering - Fundamentals	VL 2				
27	**Physics for Engineers (GES) (part 1)**				**Fundamentals of Process Engineering**		Bioprocess Engineering- Fundamentals	HÜ 2				
28	Physics for Engineers	VL 2			Environmental Technologie	VL 2	Bioprocess Engineering - Fundamental Practical Course	PR 2				
29	Physics for Engineers	UE 1			Introduction into Process Engineering/Bioprocess Engineering	VL 2						
30			**Mechanics II (GES)**		Fundamentals of Technical Drawing and Materials	VL 1						
31			Mechanics II	VL 2	Fundamentals of Technical Drawing and Materials	HÜ 1						
32			Mechanics II	HÜ 2								

33			**Physical Chemistry (part 1)**		
34			Physical Chemistry	VL	2
35		**Programming in C**	Physical Chemistry	PR	2
36		Programming in C VL 1			
		Programming in C PR 1			

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.