Course of Study General Engineering Science (English program) (Study Cohort w15)

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

33					
34					
35		**Programming in C**			
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.