Course of Study General Engineering Science (English program, 7 semester) (Study Cohort w17)

Sample course plan A Bachelor General Engineering Science (English program, 7 semester) (GESBS(7))
Specialisation Energy and Enviromental 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	Semester 7	Form	Hrs/wk
1	**Chemistry (GES)**			**Technical Thermodynamics I**			**Technical Thermodynamics II**			**Mechanical Engineering: Design (part 2)**			**Introduction to Control Systems**			**Foundations of Management**			**Advanced Internship AIW/ GES**		
2	Chemistry I	VL	2	Technical Thermodynamics I	VL	2	Technical Thermodynamics II	VL	2	Team Project Design Methodology	PBL	2	Introduction to Control Systems	VL	2	Introduction to Management	VL	3			
3	Chemistry II	VL	2	Technical Thermodynamics I	HÜ	1	Technical Thermodynamics II	HÜ	1	Mechanical Design Project II	PBL	3	Introduction to Control Systems	UE	2	Management Tutorial	HÜ	2			
4	Chemistry I	HÜ	1	Technical Thermodynamics I	UE	1	Technical Thermodynamics II	UE	1	**Fundamentals of Materials Science (part 2)**											
5	Chemistry II	HÜ	1							Fundamentals of Materials Science II	VL	2									
6										**Fundamentals of Fluid Mechanics**											
7	**Linear Algebra**			**Mathematical Analysis**			**Mathematics III**			Fundamentals of Fluid Mechanics	VL	2	**Heat and Mass Transfer**			**Environmental Technology (part 2)**					
8	Linear Algebra	VL	4	Mathematical Analysis	VL	4	Analysis III	VL	2	Fluid Mechanics for Process Engineering	HÜ	2	Heat and Mass Transfer	VL	2	Practical Exercise Environmental Technology	PR	1			
9	Linear Algebra	HÜ	2	Mathematical Analysis	HÜ	2	Analysis III	UE	1				Heat and Mass Transfer	UE	1	**Particle Technology and Solids Process Engineering**					
10	Linear Algebra	UE	2	Mathematical Analysis	UE	2	Analysis III	HÜ	1				Heat and Mass Transfer	HÜ	1	Particle Technology I	VL	2			
11							Differential Equations 1	VL	2							Particle Technology I	UE	1			
12							Differential Equations 1	UE	1							Particle Technology I	PR	2			
13							Differential Equations 1	HÜ	1							**Environmental Technology**					
14																Environmental Assessment	VL	2			
15	**Electrical Engineering I**			**Electrical Engineering II**			**Mechanics III (GES)**			**Electrical Machines**			**Thermal Separation Processes**			Environmental Assessment	UE	1			
16	Electrical Engineering I	VL	3	Electrical Engineering II	VL	3	Mechanics III	HÜ	1	Electrical Machines	VL	3	Thermal Separation Processes	VL	2	**Informatics for Process Engineers**					
17	Electrical Engineering I	UE	2	Electrical Engineering II	UE	2	Mechanics III	UE	2	Electrical Machines	HÜ	2	Thermal Separation Processes	UE	2	Numeric and Matlab	PR	2			
18							Mechanics III	VL	3				Thermal Separation Processes	HÜ	1	Informatics for Process Engineers	VL	2			
19													Separation Processes	PR	1	Informatics for Process Engineers	UE	2			
20										**Renewables and Energy Systems**												
21	**Mechanics I (GES)**			**Mechanics II (GES)**			**Computer Engineering**			Renewable Energy	VL	2	**Gas and Steam Power Plants**						**Bachelor Thesis**		
22	Mechanics I	VL	2	Mechanics II	VL	2	Computer Engineering	VL	3	Energy Systems and Energy Industry	VL	2	Gas and Steam Power Plants	VL	3						
23	Mechanics I	HÜ	3	Mechanics II	HÜ	2	Computer Engineering	UE	1	Power Industry	VL	1	Gas and Steam Power Plants	HÜ	1						
24										Renewable Energy	UE	1									

25					
26					
27	**Programming in C**	**Fundamentals of Mechanical Engineering (GES)**	**Mechanical Engineering: Design (part 1)**	**Measurement Technology for Mechanical and Process Engineers**	
28	Programming in C VL 1 Programming in C PR 1	Fundamentals of Mechanical Engineering VL 2	Embodiment Design and 3D-CAD VL 2 Mechanical Design Project I PBL 3	Measurement Technology for Mechanical and Process Engineers VL 2	
29	**Physics for Engineers (GES)**		**Fundamentals of Materials Science (part 1)**	Measurement Technology for Mechanical and Process Engineers HÜ 1	
30	Physics for Engineers VL 2 Physics for Engineers UE 1	Fundamentals of Mechanical Engineering UE 2	Fundamentals of Materials Science I VL 2 Physical and Chemical Basics of Materials Science VL 2	Practical Course: Measurement and Control Systems PR 2	
31				**Environmental Technology (part 1)**	
32				Environmental Technologie VL 2	
33					

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.