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

Sample course plan B Bachelor General Engineering Science (German program, 7 semester) (AIWBS(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**			**Electrical Engineering II: Alternating Current Networks and Basic Devices**			**Technical Thermodynamics II**			**Mechanical Engineering: Design (part 2)**			**Introduction to Control Systems**			**Foundations of Management**			**Advanced Internship AIW/ GES**		
2	Chemistry I	VL	2	Electrical Engineering II: Alternating Current Networks and Basic Devices	VL	3	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 II	HÜ	1	Mechanical Design Project II	PBL	3	Introduction to Control Systems	UE	2	Management Tutorial	HÜ	2			
	Chemistry I	HÜ	1	Electrical Engineering II: Alternating Current Networks and Basic Devices	UE	2	Technical Thermodynamics II	UE	1												
4	Chemistry II	HÜ	1							**Fundamentals of Materials Science (part 2)**											
5										Fundamentals of Materials Science II	VL	2									
6										**Fundamentals of Fluid Mechanics**											
7	**Electrical Engineering I: Direct Current Networks and Electromagnetic Fields**			**Fundamentals of Mechanical Engineering Design**			**Mathematics III**			Fundamentals of Fluid Mechanics	VL	2	**Heat and Mass Transfer**			**Environmental Technology (part 2)**					
	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	VL	3	Fundamentals of Mechanical Engineering Design	VL	2	Analysis III	VL	2	Fluid Mechanics for Process Engineering	HÜ	2	Heat and Mass Transfer	VL	2	Practical Exercise Environmental Technology	PR	1			
8					HÜ	2	Analysis III	UE	1				Heat and Mass Transfer	UE	1	**Particle Technology and Solids Process Engineering**					
9							Analysis III	HÜ	1				Heat and Mass Transfer	HÜ	1	Particle Technology I	VL	2			
10	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	UE	2				Differential Equations 1	VL	2							Particle Technology I	UE	1			
11							Differential Equations 1	UE	1							Particle Technology I	PR	2			
12							Differential Equations 1	HÜ	1												
13	**Mathematics I**			**Technical Thermodynamics I**						**Electrical Machines**			**Thermal Separation Processes**			**Environmental Technology**					
14	Linear Algebra I	VL	2	Technical Thermodynamics I	VL	2	**Mechanics III (Hydrostatics, Kinematics, Kinetics I)**			Electrical Machines	VL	3	Thermal Separation Processes	VL	2	Environmental Assessment	VL	2			
15	Linear Algebra I	UE	1							Electrical Machines	HÜ	2	Thermal Separation Processes	UE	2	Environmental Assessment	UE	1			
16	Linear Algebra I	HÜ	1	Technical Thermodynamics I	HÜ	1	Mechanics III	VL	3				Thermal Separation Processes	HÜ	1						
	Analysis I	VL	2	Technical Thermodynamics I	UE	1	Mechanics III	UE	2				Separation Processes	PR	1	**Process and Plant Engineering I**					
17	Analysis I	UE	1				Mechanics III	HÜ	1							Process and Plant Engineering I	VL	2	**Bachelor Thesis**		
18	Analysis I	HÜ	1	**Mechanics II: Mechanics of Materials**						**Renewables and Energy Systems**			**Gas and Steam Power Plants**			Process and Plant Engineering I	HÜ	1			
19				Mechanics II	VL	2				Renewable Energy	VL	2	Gas and Steam Power Plants	VL	3	Process and Plant Engineering I	UE	1			
20				Mechanics II	UE	2				Energy Systems and Energy Industry	VL	2	Gas and Steam Power Plants	HÜ	1						
21	**Mechanics I (Statics)**			Mechanics II	HÜ	2	**Computer Engineering**			Power Industry	VL	1									
22	Mechanics I	VL	2				Computer Engineering	VL	3	Renewable Energy	UE	1									
	Mechanics I	UE	2				Computer Engineering	UE	1												
23	Mechanics I	HÜ	1																		

24					
25		**Mathematics II**			
26		Linear Algebra II	VL 2		
27	**Programming in C**	Linear Algebra II	UE 1	**Mechanical Engineering: Design (part 1)**	
28	Programming in C VL 1 Programming in C PR 1	Linear Algebra II Linear Algebra II	HÜ 1 VL 2	Embodiment Design and 3D-CAD VL 2 Mechanical Design Project I PBL3	**Measurement Technology for Mechanical and Process Engineers** Measurement Technology for Mechanical and Process Engineers VL 2 Measurement Technology for Mechanical and Process Engineers HÜ 1 Practical Course: Measurement and Control Systems PR 2
29	**Physics for Engineers (AIW)**	Analysis II Analysis II	HÜ 1 UE 1	**Fundamentals of Materials Science (part 1)**	
30	Physics for Engineers VL 2 Physics for Engineers UE 1			Fundamentals of Materials Science I VL 2 Physical and Chemical Basics of Materials Science VL 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.