Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w21)

Legend:

Core qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
Core qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

Sample course plan A Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7))
Specialisation Green Technologies, Focus Water and Environmental Engineering

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	Semester 7	FormHrs/wk
1	**Chemistry**		**Electrical Engineering II: Alternating Current Networks and Basic Devices**		**Technical Thermodynamics II**		**Signals and Systems**		**Introduction to Control Systems**		**Foundations of Management**		**Advanced Internship AIW/ ES**	
2	Chemistry I+II	VL 4	Electrical Engineering II: Alternating Current Networks and Basic Devices	VL 3	Technical Thermodynamics II	VL 2	Signals and Systems	VL 3	Introduction to Control Systems	VL 2	Introduction to Management	VL 3	Advanced Internship AIW/ ES: Preparation	SE 1
3	Chemistry I+II	HÜ 2	Electrical Engineering II: Alternating Current Networks and Basic Devices	GÜ 2	Technical Thermodynamics II	HÜ 1	Signals and Systems	GÜ 2	Introduction to Control Systems	GÜ 2	Management Tutorial	GÜ 2	Advanced Intenship AIW/ ES: Internship-accompanying Seminar	SE 1
4					Technical Thermodynamics II	GÜ 1								
5														
6														
7	**Electrical Engineering I: Direct Current Networks and Electromagnetic Fields**		**Fundamentals of Mechanical Engineering Design**		**Mathematics III**		**Fundamentals of Fluid Mechanics**		**Heat and Mass Transfer**		**Green Technologies II (part 2)**			
8	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	VL 3	Fundamentals of Mechanical Engineering Design	VL 2	Analysis III	VL 2	Fundamentals of Fluid Mechanics	VL 2	Heat and Mass Transfer	VL 2	Practical Exercise Environmental Technology	PR 1		
9	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	GÜ 2	Fundamentals of Mechanical Engineering Design	HÜ 2	Analysis III	GÜ 1	Fluid Mechanics for Process Engineering	HÜ 2	Heat and Mass Transfer	GÜ 1	**Particle Technology and Solids Process Engineering**			
10					Analysis III	HÜ 1			Heat and Mass Transfer	HÜ 1	Particle Technology I	VL 2		
11					Differential Equations 1	VL 2					Particle Technology I	GÜ 1		
12					Differential Equations 1	GÜ 1					Particle Technology I	PR 2		
13	**Mathematics I**		**Technical Thermodynamics I**		Differential Equations 1	HÜ 1	**Sanitary Engineering I**		**Green Technologies II (part 1)**		**Sanitary Engineering II**			
14	Linear Algebra I	VL 2	Technical Thermodynamics I	VL 2	**Mechanics III (Dynamics)**		Wastewater Disposal	VL 2	Environmental Technologie	VL 2	Drinking Water Treatment	SE 2		
15	Linear Algebra I	GÜ 1	Technical Thermodynamics I	HÜ 1	Mechanics III	VL 3	Wastewater Disposal	HÜ 1	Environmental Assessment	VL 2	Management of Wastewater Infrastructure	SE 2		
16	Linear Algebra I	HÜ 1	Technical Thermodynamics I	GÜ 1	Mechanics III	GÜ 2	Drinking Water Supply	VL 2	Environmental Assessment	GÜ 1				
17	Analysis I	VL 2			Mechanics III	HÜ 1	Drinking Water Supply	HÜ 1						
18	Analysis I	GÜ 1							**Hydraulic Engineering**					
19	Analysis I	HÜ 1	**Mechanics II: Mechanics of Materials**				**Conventional Energy Systems and Energy Economics**		Hydraulics	VL 1			**Bachelor Thesis**	
20			Mechanics II	VL 2			Energy systems and markets	VL 2	Hydraulics	PBL 1				
21	**Mechanics I (Statics)**		Mechanics II	GÜ 2	**Measurement Technology for VT/ BVT**		Fossil Energy Sources	VL 3	Hydraulic Engineering	VL 2				
22	Mechanics I	VL 2	Mechanics II	HÜ 2	Measurement Technology	VL 2	Fossil Energy Sources	HÜ 1	Hydraulic Engineering	PBL 1				
23	Mechanics I	GÜ 2			Physical Fundamentals of Measurement Technology	VL 2								
24	Mechanics I	HÜ 1			Practical Course Measurement Technology	PR 2			**Green Technologies III**					
25			**Mathematics II**				**Renewable Energies**		Scientific Work and Writing	SE 2				
26			Linear Algebra II	VL 2			Renewable Energies I	VL 2	Study Work Green Technologies	PS 2				
27	**Computer Science for Engineers - Introduction and Overview**		Linear Algebra II	GÜ 1	**Green Technologies I**		Renewable Energies II	VL 2						
28	Computer Science for Engineers - Introduction and Overview	VL 3	Linear Algebra II	HÜ 1	Meteorology and Climate Systems - Introduction	VL 2	Renewable Energies I	HÜ 1						
29			Analysis II	VL 2	Introduction to Green Technologies	SE 2	Renewable Energies II	HÜ 1						
30	Computer Science for Engineers - Introduction and Overview	GÜ 2	Analysis II	HÜ 1	Meteorology and Climate Systems - Introduction	GÜ 2								
31			Analysis II	GÜ 1										
32														
	Non-technical 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.