Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w16)

Sample course plan A Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7))
Specialisation Civil 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**			**Building Materials and Building Chemistry**			**Computer Engineering**			**Foundations of Management**			**Advanced Internship GES**		
2	Chemistry I	VL	2	Electrical Engineering II: Alternating Current Networks and Basic Devices	VL	3	Technical Thermodynamics II	VL	2	Building Materials and Building Chemistry	VL	4	Computer Engineering	VL	3	Introduction to Management	VL	3			
3	Chemistry II	VL	2				Technical Thermodynamics II	HÜ	1				Computer Engineering	UE	1	Management Tutorial	HÜ	2			
4	Chemistry I	HÜ	1																		
5	Chemistry II	HÜ	1																		
6				Electrical Engineering II: Alternating Current Networks and Basic Devices	UE	2	Technical Thermodynamics II	UE	1	Building Materials and Building Chemistry	UE	1									
7	**Electrical Engineering I: Direct Current Networks and Electromagnetic Fields**			**Fundamentals of Mechanical Engineering Design**			**Mathematics III**			**Reinforced Concrete I**			**Introduction to Control Systems**			**Structural Design**					
8	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	VL	3	Fundamentals of Mechanical Engineering Design	VL	2	Analysis III	VL	2	Reinforced Concrete Design I	VL	2	Introduction to Control Systems	VL	2	Basics of Structural Design	VL	2			
9							Analysis III	UE	1	Reinforced Concrete Design I	HÜ	2	Introduction to Control Systems	UE	2	Exercises in Structural Design	HÜ	1			
10							Analysis III	HÜ	1	Project Seminar Concrete I	SE	1				Seminar in Structural Design	PBL	2			
11							Differential Equations 1	VL	2												
12	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	UE	2				Differential Equations 1	UE	1												
13	**Mathematics I**			**Technical Thermodynamics I**			Differential Equations 1	HÜ	1	**Geotechnics I**			**Steel Structures I**			**Sanitary Engineering**					
14	Linear Algebra I	VL	2	Technical Thermodynamics I	VL	2	**Mechanics III (Hydrostatics, Kinematics, Kinetics I)**			Soil Mechanics	VL	2	Steel Structures I	VL	2	Wastewater Disposal	VL	2			
15	Linear Algebra I	UE	1							Soil Mechanics	HÜ	2	Steel Structures I	HÜ	2	Wastewater Disposal	HÜ	1			
16	Linear Algebra I	HÜ	1	Technical Thermodynamics I	HÜ	1	Mechanics III	VL	3	Soil Mechanics	UE	2				Drinking Water Supply	VL	2			
17	Analysis I	VL	2				Mechanics III	UE	2							Drinking Water Supply	HÜ	1			
18	Analysis I	UE	1	Technical Thermodynamics I	UE	1	Mechanics III	HÜ	1												
19	Analysis I	HÜ	1	**Mechanics II: Mechanics of Materials**						**Structural Analysis II**			**Hydraulic Engineering I**			**Hydraulic Engineering II**			**Bachelor Thesis**		
20				Mechanics II	VL	2	**Principles of Building Materials and Building Physics**			Structural Analysis II	VL	2	Hydromechanics	VL	2	Hydraulics	VL	1			
21	**Mechanics I (Statics)**			Mechanics II	UE	2	Principles of Building Materials	VL	2	Structural Analysis II	HÜ	2	Hydromechanics	HÜ	1	Hydraulics	HÜ	1			
22	Mechanics I	VL	2	Mechanics II	HÜ	2	Building Physics	VL	2				Hydrology	VL	1	Hydraulic Engineering	VL	2			
23	Mechanics I	UE	2	**Mathematics II**			Building Physics	HÜ	1				Hydrology	PBL	1	Hydraulic Engineering	HÜ	1			
24	Mechanics I	HÜ	1	Linear Algebra II	VL	2	Building Physics	UE	1												
25				Linear Algebra II	UE	1	**Structural Analysis I**						**Water Management**								
26				Linear Algebra II	HÜ	1	Structural Analysis I	VL	2				Groundwater Hydrology	VL	1						
27	**Programming in C**			Analysis II	VL	2							Groundwater Hydrology	HÜ	1						
28	Programming in C	VL	1	Analysis II	HÜ	1							Water Management and Water Quality	VL	2						

	Programming in C PR 1	Analysis II UE 1	Structural Analysis I HÜ 2		
29	**Physics for Engineers (AIW)**				
30	Physics for Engineers VL 2				
31	Physics for Engineers UE 1				
32					
	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.