Course of Study General Engineering Science (German program) (Study Cohort w14)

Sample course plan - Bachelor General Engineering Science (German program) (AIWBS)
Specialisation Civil- and Enviromental Engeneering

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	**Physics for Engineers (part 1)**			**Electrical Engineering II: Alternating Current Networks and Basic Devices**			**Technical Thermodynamics II**			**Foundations of Management**			**Introduction to Control Systems**			**Sanitary Engineering**		
2	Physics for Engineers	VL	2				Technical Thermodynamics II	VL	2	Introduction to Management	VL	4	Introduction to Control Systems	VL	2	Wastewater Disposal	VL	2
3	Physics for Engineers	UE	1	Electrical Engineering II: Alternating	VL	3	Technical Thermodynamics II	HÜ	1	Project Entrepreneurship	POL	2	Introduction to Control Systems	UE	2	Wastewater Disposal	HÜ	1
4				Current Networks and Basic Devices			Technical Thermodynamics II	UE	1							Drinking Water Supply	VL	2
5	**Chemistry**			Electrical Engineering II: Alternating	UE	2										Drinking Water Supply	HÜ	1
6	Chemistry I	VL	2	Current Networks and Basic Devices														
7	Chemistry II	VL	2				**Computer Engineering**			**Reinforced Concrete I**			**Principles of Building Materials and Building Physics**			**Hydraulic Engineering II**		
8	Chemistry I	HÜ	1	**Fundamentals of Mechanical Engineering Design**			Computer Engineering	VL	3	Reinforced Concrete Design I	VL	2				Hydraulics	VL	1
9	Chemistry II	HÜ	1	Fundamentals of Mechanical	VL	2	Computer Engineering	UE	1	Reinforced Concrete Design I	HÜ	2	Principles of Building Materials	VL	2	Hydraulics	HÜ	1
10				Engineering Design						Project Seminar Concrete I	SE	1	Building Physics	VL	2	Hydraulic Engineering	VL	2
11	**Electrical Engineering I: Direct Current Networks and Electromagnetic Fields**			Fundamentals of Mechanical	HÜ	2							Building Physics	HÜ	1	Hydraulic Engineering	HÜ	1
12				Engineering Design									Building Physics	UE	1			
13	Electrical Engineering I: Direct Current	VL	3				**Mathematics III**			**Signals and Systems**			**Steel Structures I**			**Bachelor Thesis**		
14	Networks and Electromagnetic Fields			**Technical Thermodynamics I**			Analysis III	VL	2	Signals and Systems	VL	3	Steel Structures I	VL	2			
15	Electrical Engineering I: Direct Current	UE	2	Technical Thermodynamics I	VL	2	Analysis III	UE	1	Signals and Systems	HÜ	1	Steel Structures I	HÜ	2			
16	Networks and Electromagnetic Fields			Technical Thermodynamics I	HÜ	1	Analysis III	HÜ	1									
17	**Mathematics I**			Technical Thermodynamics I	UE	1	Differential Equations 1	VL	2									
18	Linear Algebra I	VL	2				Differential Equations 1	UE	1									
19	Linear Algebra I	UE	1				Differential Equations 1	HÜ	1	**Geotechnics I**			**Concrete Structures II**					
20	Linear Algebra I	HÜ	1	**Mechanics II: Mechanics of Materials**						Soil Mechanics	VL	2	Concrete Structures II	VL	3			
21	Analysis I	VL	2	Mechanics II	VL	2				Soil Mechanics	HÜ	2	Concrete Structures II	HÜ	1			
22	Analysis I	UE	1	Mechanics II	UE	2				Soil Mechanics	POL	2	Project Concrete Structures II	PS	1			
23	Analysis I	HÜ	1				**Mechanics III (Hydrostatics, Kinematics, Kinetics I)**											
24							Mechanics III	VL	3									
25	**Mechanics I (Statics)**			**Mathematics II**			Mechanics III	UE	2	**Structural Analysis II**			**Hydraulic Engineering I**					
26	Mechanics I	VL	2	Linear Algebra II	VL	2	Mechanics III	HÜ	1	Structural Analysis II	VL	2	Hydromechanics	VL	2			
27	Mechanics I	UE	2	Linear Algebra II	UE	1				Structural Analysis II	HÜ	2	Hydromechanics	HÜ	1			
28	Mechanics I	HÜ	1	Linear Algebra II	HÜ	1	**Structural Analysis I**						Hydrology	VL	1			
29				Analysis II	VL	2	Structural Analysis I	VL	2				Hydrology	POL	1			
30				Analysis II	HÜ	1	Structural Analysis I	HÜ	2									
31				Analysis II	UE	1							**Geotechnics II**					
32													Foundation Engineering	VL	2			
33				**Programming in C**									Foundation Engineering	HÜ	2			
34				Programming in C	VL	1							Foundation Engineering	POL	2			
				Programming in C	PR	1												

35	**Programming in C** PR 1
36	**Physics for Engineers (part 2)**
	Physics-Lab for ET/IIW-Engineers 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.