Course of Study General Engineering Science (German program) (Study Cohort w15)

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