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

Sample course plan B Bachelor General Engineering Science (English program, 7 semester) (GESBS(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 (GES)**			**Fundamentals of Mechanical Engineering Design**			**Technical Thermodynamics II**			**Building Materials and Building Chemistry**			**Computer Engineering**			**Foundations of Management**			**Advanced Internship GES**		
2	Chemistry I	VL	2	Fundamentals of Mechanical Engineering Design	VL	2	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										Computer Engineering	UE	1						
4	Chemistry I	HÜ	1	Fundamentals of Mechanical Engineering Design	HÜ	2	Technical Thermodynamics II	HÜ	1	Building Materials and Building Chemistry	UE	1				Management Tutorial	HÜ	2			
5	Chemistry II	HÜ	1																		
6							Technical Thermodynamics II	UE	1												
7	**Linear Algebra**			**Technical Thermodynamics I**			**Mathematics III**			**Reinforced Concrete I**			**Introduction to Control Systems**			**Structural Design**					
8	Linear Algebra	VL	4	Technical Thermodynamics I	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	Linear Algebra	HÜ	2				Analysis III	UE	1												
10	Linear Algebra	UE	2	Technical Thermodynamics I	HÜ	1	Analysis III	HÜ	1	Reinforced Concrete Design I	HÜ	2	Introduction to Control Systems	UE	2	Exercises in Structural Design	HÜ	1			
11							Differential Equations 1	VL	2												
12				Technical Thermodynamics I	UE	1	Differential Equations 1	UE	1	Project Seminar Concrete I	SE	1				Seminar in Structural Design	PBL	2			
13				**Mathematical Analysis**			Differential Equations 1	HÜ	1	**Geotechnics I**			**Steel Structures I**			**Hydraulic Engineering II**					
14				Mathematical Analysis	VL	4				Soil Mechanics	VL	2	Steel Structures I	VL	2	Hydraulics	VL	1			
15	**Electrical Engineering I**			Mathematical Analysis	HÜ	2	**Mechanics III (GES)**			Soil Mechanics	HÜ	2	Steel Structures I	HÜ	2	Hydraulics	HÜ	1			
16	Electrical Engineering I	VL	3				Mechanics III	HÜ	1							Hydraulic Engineering	VL	2			
17	Electrical Engineering I	UE	2	Mathematical Analysis	UE	2	Mechanics III	UE	2	Soil Mechanics	UE	2				Hydraulic Engineering	HÜ	1			
18							Mechanics III	VL	3												
19										**Structural Analysis II**			**Hydraulic Engineering I**			**Applications in Civil and Environmental Engineering (part 2)**			**Bachelor Thesis**		
20										Structural Analysis II	VL	2	Hydromechanics	VL	2	Selection from a catalog					
21	**Mechanics I (GES)**			**Electrical Engineering II**			**Principles of Building Materials and Building Physics**			Structural Analysis II	HÜ	2	Hydromechanics	HÜ	1						
22	Mechanics I	VL	2	Electrical Engineering II	VL	3	Principles of Building Materials	VL	2				Hydrology	VL	1						
23	Mechanics I	HÜ	3	Electrical Engineering II	UE	2	Building Physics	VL	2				Hydrology	PBL	1						
24							Building Physics	HÜ	1												
25							Building Physics	UE	1				**Concrete Structures II**								
26													Concrete Structures II	VL	2						
27	**Programming in C**			**Mechanics II (GES)**			**Structural Analysis I**						Concrete Structures II	HÜ	2						
28	Programming in C	VL	1	Mechanics II	VL	2	Structural Analysis I	VL	2				Project Concrete Structures II	PS	1						
29	Programming in C	PR	1	Mechanics II	HÜ	2	Structural Analysis I	HÜ	2												
30	**Physics for Engineers (GES)**												**Applications in Civil and Environmental Engineering**								
31	Physics for Engineers	VL	2										**(part 1)**								
32	Physics for Engineers	UE	1																		
33																					

		Selection from a catalog

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.