Course of Study Civil- and Environmental Engineering (Study Cohort w20)

Sample course plan B Bachelor Civil- and Environmental Engineering (BUBS)
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
1	**Principles of Building Materials and Building Physics**			**Building Materials and Building Chemistry**			**Structural Design**			**Reinforced Concrete Structures I**			**Steel Structures I**			**Applications in Civil / Environmental Engineering (part 2)**		
2	Principles of Building Materials	VL	2	Building Materials and Building Chemistry	VL	4	Basics of Structural Design	VL	2	Reinforced Concrete Design I	VL	2	Steel Structures I	VL	2	Selection from a catalog		
3	Building Physics	VL	2	Building Materials and Building Chemistry	UE	1	Basics in Structural Design	HÜ	1	Reinforced Concrete Design I	HÜ	2	Steel Structures I	HÜ	2	**Steel Structures II**		
4	Building Physics	HÜ	1				Basics in Structural Design	PBL	2	Project Seminar Concrete I	SE	1				Steel Structures II	VL	2
5	Building Physics	UE	1													Steel Structures II	HÜ	2
6																		
7	**Chemistry**			**Construction Industry and Construction Management**			**Geotechnics I**			**Sanitary Engineering I**			**Hydraulic Engineering**					
8	Chemistry I+II	VL	4	Environmental Law	VL	1	Soil Mechanics	VL	2	Wastewater Disposal	VL	2	Hydraulics	VL	1			
9	Chemistry I+II	HÜ	2	Construction Management	VL	2	Soil Mechanics	HÜ	2	Wastewater Disposal	HÜ	1	Hydraulics	PBL	1			
10				Construction Management	HÜ	1	Soil Mechanics	UE	2	Drinking Water Supply	VL	2	Hydraulic Engineering	VL	2	**Structural Mechanics**		
11				Law of Building Contracts	VL	1				Drinking Water Supply	HÜ	1	Hydraulic Engineering	PBL	1	Stuctural Mechanics	IV	2
12																		
13	**Mathematics I**			**Mechanics II: Mechanics of Materials**			**Hydromechanics and Hydrology**			**Structural Analysis II**			**Applications in Civil / Environmental Engineering (part 1)**			**Bachelor Thesis**		
14	Linear Algebra I	VL	2	Mechanics II	VL	2	Hydromechanics	VL	2	Structural Analysis II	VL	2	Selection from a catalog					
15	Linear Algebra I	UE	1	Mechanics II	UE	2	Hydromechanics	PBL	1	Structural Analysis II	HÜ	2						
16	Linear Algebra I	HÜ	1	Mechanics II	HÜ	2	Hydrology	VL	1				**Reinforced Concrete Structures II**					
17	Analysis I	VL	2				Hydrology	PBL	1				Concrete Structures II	VL	2			
18	Analysis I	UE	1	**Mathematics II**			**Structural Analysis I**			**Geotechnics II**			Concrete Structures II	HÜ	2			
19	Analysis I	HÜ	1	Linear Algebra II	VL	2	Structural Analysis I	VL	2	Foundation Engineering	VL	2	Project Concrete Structures II	PS	1			
20				Linear Algebra II	UE	1	Structural Analysis I	HÜ	2	Foundation Engineering	HÜ	2						
21	**Mechanics I (Statics)**			Linear Algebra II	HÜ	1				Foundation Engineering	UE	2	**Construction Informatics**					
22	Mechanics I	VL	2	Analysis II	VL	2	**Mathematics III**						Construction Informatics	IV	2			
23	Mechanics I	UE	2	Analysis II	HÜ	1	Analysis III	VL	2	**Sustainable Building**			Construction Informatics	UE	2			
24	Mechanics I	HÜ	1	Analysis II	UE	1	Analysis III	UE	1	Sustainable Building	SE	3						
25							Analysis III	HÜ	1	Circular flow economy and structural recycling	PBL	3						
26							Differential Equations 1	VL	2									
27				**Water and Environment**			Differential Equations 1	UE	1									
28				Water in the Environment	VL	2	Differential Equations 1	HÜ	1									
29				Project on Water, Environment, Traffic	PBL	2												
30																		
31																		
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.