

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

Sample course plan U Bachelor Civil- and Environmental Engineering (BUBS)
Specialisation Water and Environment

Core qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
Core qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

LP	Semester 1	FormHrs/wk	Semester 2	FormHrs/wk	Semester 3	FormHrs/wk	Semester 4	FormHrs/wk	Semester 5	FormHrs/wk	Semester 6	FormHrs/wk						
1	Principles of Building Materials and Building Physics	VL 2	Building Materials and Building Chemistry	VL 4	Structural Design	VL 2	Reinforced Concrete Structures I	VL 2	Steel Structures I	VL 2	Applications in Civil / Environmental Engineering (part 2)	VL 2						
2													Principles of Building Materials	Building Materials and Building Chemistry	Basics of Structural Design	Reinforced Concrete Design I	Steel Structures I	Selection from a catalog
3													Building Physics	Building Materials and Building Chemistry	Basics in Structural Design	Reinforced Concrete Design I	Steel Structures I	
4													Building Physics	Building Materials and Building Chemistry	Basics in Structural Design	Reinforced Concrete Design I	Steel Structures I	
5													Building Physics	Building Materials and Building Chemistry	Basics in Structural Design	Reinforced Concrete Design I	Steel Structures I	
6													Building Physics	Building Materials and Building Chemistry	Basics in Structural Design	Project Seminar Concrete I	Steel Structures I	
7	Chemistry	VL 4	Construction Industry and Construction Management	VL 1	Geotechnics I	VL 2	Sanitary Engineering I	VL 2	Hydraulic Engineering	VL 1	Sanitary Engineering II	VL 1						
8													Chemistry I+II	Environmental Law	Soil Mechanics	Wastewater Disposal	Hydraulics	Drinking Water Treatment
9													Chemistry I+II	Construction Management	Soil Mechanics	Wastewater Disposal	Hydraulics	Management of
10													Chemistry I+II	Construction Management	Soil Mechanics	Drinking Water Supply	Hydraulic Engineering	Wastewater Infrastructure
11													Chemistry I+II	Construction Management	Soil Mechanics	Drinking Water Supply	Hydraulic Engineering	
12													Chemistry I+II	Law of Building Contracts	Soil Mechanics	Drinking Water Supply	Hydraulic Engineering	
13	Mathematics I	VL 2	Mechanics II: Mechanics of Materials	VL 2	Hydromechanics and Hydrology	VL 2	Structural Analysis II	VL 2	Applications in Civil / Environmental Engineering (part 1)	VL 2	Applied Water Management	VL 2						
14													Linear Algebra I	Mechanics II	Hydromechanics	Structural Analysis II	Selection from a catalog	Groundwater Hydrology and -modelling
15													Linear Algebra I	Mechanics II	Hydromechanics	Structural Analysis II	Selection from a catalog	Groundwater Hydrology and -modelling
16													Linear Algebra I	Mechanics II	Hydrology	Structural Analysis II	Selection from a catalog	Groundwater Hydrology and -modelling
17													Linear Algebra I	Mechanics II	Hydrology	Structural Analysis II	Selection from a catalog	Nature-oriented Hydraulic Engineering
18													Analysis I	Mechanics II	Hydrology	Structural Analysis II	Selection from a catalog	
19	Mechanics I (Statics)	VL 2	Mathematics II	VL 2	Structural Analysis I	VL 2	Sustainable Building	SE 3	Transportation Planning and Traffic Engineering	PBL 4	Bachelor Thesis	PBL 2						
20													Analysis I	Linear Algebra II	Structural Analysis I	Sustainable Building	Transport Planning and Traffic Engineering	
21													Analysis I	Linear Algebra II	Structural Analysis I	Circular flow economy and structural recycling	Transport Planning and Traffic Engineering	
22													Analysis I	Linear Algebra II	Structural Analysis I	Circular flow economy and structural recycling	Transport Planning and Traffic Engineering	
23													Analysis I	Linear Algebra II	Structural Analysis I	Circular flow economy and structural recycling	Transport Planning and Traffic Engineering	
24													Analysis I	Linear Algebra II	Structural Analysis I	Circular flow economy and structural recycling	Transport Planning and Traffic Engineering	
25	Water and Environment	VL 2	Mathematics III	VL 2	Renewables and Energy Systems	VL 2	VL 2	VL 2	VL 1	UE 1	PBL 2	PBL 2						
26													Analysis II	Analysis III	Renewable Energy	Energy Systems and Energy Industry	Power Industry	Renewable Energy
27													Analysis II	Analysis III	Renewable Energy	Energy Systems and Energy Industry	Power Industry	Renewable Energy
28													Analysis II	Analysis III	Renewable Energy	Energy Systems and Energy Industry	Power Industry	Renewable Energy
29													Analysis II	Analysis III	Renewable Energy	Energy Systems and Energy Industry	Power Industry	Renewable Energy
30													Analysis II	Analysis III	Renewable Energy	Energy Systems and Energy Industry	Power Industry	Renewable Energy
31	Non-technical Courses for Bachelors (from catalogue) - 6LP																	
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The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.

