

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

Sample course plan V Bachelor Civil- and Environmental Engineering (BUBS)
Specialisation Traffic and Mobility

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																			
3													Principles of Building Materials	Building Materials and Building Chemistry	Basics of Structural Design	Reinforced Concrete Design I	Steel Structures I	Selection from a catalog	
4													Materials	Building Chemistry	Basics in Structural Design	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 Chemistry	Basics in Structural Design	Reinforced Concrete Design I	Steel Structures I		
6	Building Physics	Building Chemistry	Basics in Structural Design	Reinforced Concrete Design I	Steel Structures I														
6	Building Physics	Building Chemistry	Basics in Structural Design	Reinforced Concrete Design I	Steel Structures I	Project Seminar Concrete I	SE 1				Introduction to Railways	VL 2							
7	Chemistry	VL 4	Construction Industry and Construction Management	VL 1	Geotechnics I	VL 2	Sanitary Engineering I	VL 2	Hydraulic Engineering	VL 1	Introduction to Railways	VL 2							
8																			
9													Chemistry I+II	Environmental Law	Soil Mechanics	Wastewater Disposal	Hydraulics	Introduction to Railways	HÜ 1
10													Chemistry I+II	Construction Management	Soil Mechanics	Wastewater Disposal	Hydraulics	Introduction to Railways	HÜ 1
11														Construction Management	Soil Mechanics	Drinking Water Supply	Hydraulic Engineering		
12														Construction Management	Soil Mechanics	Drinking Water Supply	Hydraulic Engineering		
12		Law of Building Contracts	Law of Building Contracts	Drinking Water Supply	Hydraulic Engineering						Geoinformation Science								
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	Introduction to Geoinformation Science	PBL 3							
14																			
15													Linear Algebra I	Mechanics II	Hydromechanics	Structural Analysis II	Structural Analysis II	Selection from a catalog	
16													Linear Algebra I	Mechanics II	Hydromechanics	Structural Analysis II	Structural Analysis II		
17													Linear Algebra I	Mechanics II	Hydrology	Structural Analysis II	Structural Analysis II		
18													Analysis I	Mechanics II	Hydrology	Structural Analysis II	Structural Analysis II		
18	Analysis I	Mechanics II	Hydrology	Structural Analysis II	Structural Analysis II														
18	Analysis I	Mechanics II	Hydrology	Structural Analysis II	Structural Analysis II														
19	Mechanics I (Statics)	VL 2	Mathematics II	VL 2	Structural Analysis I	VL 2	Mobility Concepts	PBL 3	Transportation Planning and Traffic Engineering	PBL 4	Planning Law and Environmental Law/ Sustainable Urban Development	VL 2							
20																			
21													Linear Algebra II	Linear Algebra II	Structural Analysis I	Mobility Research and Transportation Projects	Transport Planning and Traffic Engineering	Environmental law	VL 2
22													Linear Algebra II	Linear Algebra II	Structural Analysis I	Mobility in Megacities and Developing Countries	Transport Planning and Traffic Engineering	Sustainable Urban Development	VL 2
23													Mechanics I	Analysis II	Structural Analysis I	Mobility in Megacities and Developing Countries	Transport Planning and Traffic Engineering		
24													Mechanics I	Analysis II	Structural Analysis I	Mobility in Megacities and Developing Countries	Transport Planning and Traffic Engineering		
25	Mechanics I	Analysis II	Structural Analysis I	Mobility in Megacities and Developing Countries	Transport Planning and Traffic Engineering														
26	Water and Environment	VL 2	Mathematics III	VL 2	Foundations of Management	VL 3	Foundations of Management	VL 3	Foundations of Management	VL 3	Bachelor Thesis								
27																			
28													Analysis III	Analysis III	Structural Analysis I	Mobility in Megacities and Developing Countries	Transport Planning and Traffic Engineering		
29													Analysis III	Analysis III	Structural Analysis I	Mobility in Megacities and Developing Countries	Transport Planning and Traffic Engineering		
30													Analysis III	Analysis III	Structural Analysis I	Mobility in Megacities and Developing Countries	Transport Planning and Traffic Engineering		
31													Analysis III	Analysis III	Structural Analysis I	Mobility in Megacities and Developing Countries	Transport Planning and Traffic Engineering		
32	Analysis III	Analysis III	Structural Analysis I	Mobility in Megacities and Developing Countries	Transport Planning and Traffic Engineering														

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.

