

Course of Study Civil- and Environmental Engineering (Study Cohort w21)

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

		Core Qualification Compulsory		Specialisation Compulsory		Focus Compulsory		Thesis Compulsory	
		Core Qualification Elective Compulsory		Specialisation Elective Compulsory		Focus Elective Compulsory		Interdisciplinary complement	
Specialisation Traffic and Mobility									
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 GÜ 1	Basics in Structural Design HÜ 1	Reinforced Concrete Design I HÜ 2	Steel Structures I HÜ 2				
4	Building Physics HÜ 1		Basics in Structural Design PBL 2	Project Seminar Concrete I SE 1					
5	Building Physics GÜ 1								
6						Introduction to Railways			
7	Chemistry	Construction Industry and Construction Management	Geotechnics I	Sanitary Engineering I	Hydraulic Engineering	Introduction to Railways VL 2			
8	Chemistry I+II VL 4	Environmental Law VL 1	Soil Mechanics VL 2	Wastewater Disposal VL 2	Hydraulics VL 1	Introduction to Railways HÜ 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 GÜ 2	Drinking Water Supply VL 2	Hydraulic Engineering VL 2				
11		Law of Building Contracts VL 1		Drinking Water Supply HÜ 1	Hydraulic Engineering PBL 1				
12						Geoinformation Science			
13	Mathematics I	Mechanics II: Mechanics of Materials	Hydromechanics and Hydrology	Structural Analysis II	Applications in Civil / Environmental Engineering (part 1)	Introduction to Geoinformation Science PBL 3			
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 GÜ 1	Mechanics II GÜ 2	Hydromechanics PBL 1	Structural Analysis II HÜ 2					
16	Linear Algebra I HÜ 1	Mechanics II HÜ 2	Hydrology VL 1						
17	Analysis I VL 2		Hydrology PBL 1						
18	Analysis I GÜ 1								
19	Analysis I HÜ 1								
20		Mathematics II	Structural Analysis I	Mobility Concepts	Transportation Planning and Traffic Engineering				
21	Mechanics I (Statics)	Linear Algebra II VL 2	Structural Analysis I VL 2	Mobility Research and Transportation Projects PBL 3	Transport Planning and Traffic Engineering PBL 4				
22	Mechanics I VL 2	Linear Algebra II GÜ 1	Structural Analysis I HÜ 2	Mobility in Megacities and Developing Countries SE 3					
23	Mechanics I GÜ 2	Linear Algebra II HÜ 1							
24	Mechanics I HÜ 1	Analysis II VL 2							
25		Analysis II HÜ 1							
26		Analysis II GÜ 1							
27		Water and Environment	Mathematics III		Foundations of Management				
28		Water in the Environment VL 2	Analysis III VL 2		Introduction to Management VL 3				
29		Project on Water, Environment, Traffic PBL 2	Analysis III GÜ 1		Management Tutorial GÜ 2				
30			Analysis III HÜ 1						
31			Differential Equations 1 VL 2						
32			Differential Equations 1 GÜ 1						
			Differential Equations 1 HÜ 1						
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.

