

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

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

Specialisation Water and Environment											
1	Principles of Building Materials and Building Physics Principles of Building Materials VL 2 Building Physics VL 2 Building Physics HÜ 1 Building Physics GÜ 1	Building Materials and Building Chemistry Building Materials and Building Chemistry VL 4 Building Materials and Building Chemistry GÜ 1		Structural Design Basics of Structural Design VL 2 Basics in Structural Design HÜ 1 Basics in Structural Design PBL 2		Reinforced Concrete Structures I Reinforced Concrete Design I VL 2 Reinforced Concrete Design I HÜ 2 Project Seminar Concrete I SE 1		Steel Structures I Steel Structures I VL 2 Steel Structures I HÜ 2		Applications in Civil / Environmental Engineering (part 2) Selection from a catalog	
2											
3											
4											
5											
6											
7	Chemistry Chemistry I+II VL 4 Chemistry I+II HÜ 2	Construction Industry and Construction Management Environmental Law VL 1 Construction Management VL 2 Construction Management HÜ 1 Law of Building Contracts VL 1		Geotechnics I Soil Mechanics VL 2 Soil Mechanics HÜ 2 Soil Mechanics GÜ 2		Sanitary Engineering I Wastewater Disposal VL 2 Wastewater Disposal HÜ 1 Drinking Water Supply VL 2 Drinking Water Supply HÜ 1		Hydraulic Engineering Hydraulics VL 1 Hydraulics PBL 1 Hydraulic Engineering VL 2 Hydraulic Engineering PBL 1		Sanitary Engineering II Drinking Water Treatment SE 2 Management of Wastewater Infrastructure SE 2	
8											
9											
10											
11											
12											
13	Mathematics I Linear Algebra I VL 2 Linear Algebra I GÜ 1 Linear Algebra I HÜ 1 Analysis I VL 2 Analysis I GÜ 1 Analysis I HÜ 1	Mechanics II: Mechanics of Materials Mechanics II VL 2 Mechanics II GÜ 2 Mechanics II HÜ 2		Hydromechanics and Hydrology Hydromechanics VL 2 Hydromechanics PBL 1 Hydrology VL 1 Hydrology PBL 1		Structural Analysis II Structural Analysis II VL 2 Structural Analysis II HÜ 2		Applications in Civil / Environmental Engineering (part 1) Selection from a catalog		Applied Water Management Numerical modelling of soil water dynamics VL 2 Numerical modelling of soil water dynamics PBL 2 Nature-oriented Hydraulic Engineering PBL 2	
14											
15											
16											
17											
18											
19		Mathematics II Linear Algebra II VL 2 Linear Algebra II GÜ 1 Linear Algebra II HÜ 1		Structural Analysis I Structural Analysis I VL 2 Structural Analysis I HÜ 2		Sustainable Building Sustainable Building SE 3 Circular flow economy and structural recycling PBL 3		Transportation Planning and Traffic Engineering Transport Planning and Traffic Engineering PBL 4			
20											
21											
22											
23	Mechanics I (Statics) Mechanics I VL 2 Mechanics I GÜ 2 Mechanics I HÜ 1	Analysis II VL 2 Analysis II HÜ 1 Analysis II GÜ 1		Mathematics III Analysis III VL 2 Analysis III GÜ 1 Analysis III HÜ 1		Renewables Energy Systems Renewable Energy VL 2 Energy Systems and Energy Industry VL 2 Power Industry VL 1 Renewable Energy GÜ 1					
24											
25											
26											
27		Water and Environment Water in the Environment VL 2 Project on Water, Environment, Traffic PBL 2		Analysis III HÜ 1 Differential Equations 1 VL 2 Differential Equations 1 GÜ 1 Differential Equations 1 HÜ 1							
28											
29											
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.

