Course of Study Civil- and Environmental Engineering (Study Cohort w24)

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

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						
1	**Principles of Building Materials and Building Physics**	**Building Materials and Building Chemistry**	**Mathematics III - Differential Equations I**	**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	Differential Equations 1 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	Differential Equations 1 GÜ 1	Reinforced Concrete Design I HÜ 2	Steel Structures I HÜ 2	
4	Building Physics HÜ 1		Differential Equations 1 HÜ 1	Project Seminar Concrete I SE 1		
5	Building Physics GÜ 1					**Introduction to Railways**
6			**Practical module 3 (dual study program, Bachelor's degree)**			Introduction to Railways VL 2
7	**Chemistry**	**Construction Industry and Construction Management**	Practical term 3 0	**Sanitary Engineering I**	**Hydraulic Engineering**	Introduction to Railways HÜ 1
8	Chemistry I+II VL 4	Environmental Law VL 1		Wastewater Treatment VL 2	Hydraulics VL 1	
9	Chemistry I+II HÜ 2	Construction Management VL 2		Wastewater Treatment HÜ 1	Hydraulics PBL 1	
10		Construction Management HÜ 1		Drinking Water Supply VL 2	Hydraulic Engineering VL 2	**Geoinformation Science**
11		Law of Building Contracts VL 1	**Structural Design**	Drinking Water Supply HÜ 1	Hydraulic Engineering PBL 1	Introduction to Geoinformation Science PBL 3
12			Basics of Structural Design VL 2			
13	**Mathematics I**	**Mathematics II**	Basics in Structural Design HÜ 1	**Practical module 4 (dual study program, Bachelor's degree)**	**Practical Module 5 (Dual Study Program, Bachelor's Degree)**	**Planning Law and Environmental Law/ Sustainable Urban Development**
14	Mathematics I VL 4	Mathematics II VL 4	Basics in Structural Design PBL 2	Practical term 4 0	Practical term 5 0	Planning law and Environmental law VL 2
15	Mathematics I HÜ 2	Mathematics II HÜ 2				Sustainable Urban Development VL 2
16	Mathematics I GÜ 2	Mathematics II GÜ 2	**Hydromechanics and Hydrology**			
17			Hydromechanics VL 2			
18			Hydromechanics PBL 1			
19			Hydrology VL 1	**Structural Analysis II**	**Applications in Civil + Environmental Engineering (part 1)**	**Bachelor Thesis (Dual Study Program)**
20			Hydrology PBL 1	Structural Analysis II VL 2	Selection from a catalog	
21	**Engineering Informatics**	**Water and Environment**		Structural Analysis II HÜ 3		
22	Object-oriented Modelling IV 2	Water in the Environment VL 2	**Soil Mechanics**		**Transportation Planning and Traffic Engineering**	
23	Object-oriented Modelling GÜ 2	Project on Water, Environment, Traffic PBL 2	Soil Mechanics VL 2	**Mobility Concepts**	Transport Planning and Traffic Engineering IV 4	
24	Databases IV 1		Soil Mechanics HÜ 2	Mobility Research and Transportation Projects PBL 3		
25	Databases GÜ 1		Soil Mechanics GÜ 2	Mobility in Megacities and Developing Countries SE 3		
26						
27	**Practical module 1 (dual study program, Bachelor's degree)**	**Practical module 2 (dual study program, Bachelor's degree)**	**Structural Analysis I**		**Foundations of Management**	
28	Practical term 1 0	Practical term 2 0	Structural Analysis I VL 2		Introduction to Management VL 3	
29			Structural Analysis I HÜ 3		Exercise Introduction to Management GÜ 2	
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32						
33	**Engineering Mechanics I (Stereostatics)**	**Engineering Mechanics II (Elastostatics)**				
34	Engineering Mechanics I VL 2	Engineering Mechanics II VL 2				
35	Engineering Mechanics I GÜ 2	Engineering Mechanics II GÜ 2				
36	Engineering Mechanics I HÜ 2	Engineering Mechanics II HÜ 2				
37						
38						

Linking theory and practice (dual study program, Bachelor's degree) (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.