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

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

Specialisation Traffic and Mobility

Legend			
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		**Structural Design**			**Introduction to Railways**
6			Basics of Structural Design VL 2			Introduction to Railways VL 2
7	**Chemistry**	**Construction Industry and Construction Management**	Basics in Structural Design HÜ 1	**Sanitary Engineering I**	**Hydraulic Engineering**	Introduction to Railways HÜ 1
8	Chemistry I+II VL 4	Environmental Law VL 1	Basics in Structural Design PBL 2	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	**Hydromechanics and Hydrology**	Drinking Water Supply VL 2	Hydraulic Engineering VL 2	**Geoinformation Science**
11		Law of Building Contracts VL 1	Hydromechanics VL 2	Drinking Water Supply HÜ 1	Hydraulic Engineering PBL 1	Introduction to Geoinformation Science PBL 3
12			Hydromechanics PBL 1			
13	**Mathematics I**	**Mathematics II**	Hydrology VL 1	**Structural Analysis II**	**Applications in Civil + Environmental Engineering (part 1)**	**Planning Law and Environmental Law/ Sustainable Urban Development**
14	Mathematics I VL 4	Mathematics II VL 4	Hydrology PBL 1	Structural Analysis II VL 2	Selection from a catalog	Planning law and Environmental law VL 2
15	Mathematics I HÜ 2	Mathematics II HÜ 2		Structural Analysis II HÜ 3		Sustainable Urban Development VL 2
16	Mathematics I GÜ 2	Mathematics II GÜ 2	**Soil Mechanics**		**Transportation Planning and Traffic Engineering**	
17			Soil Mechanics VL 2		Transport Planning and Traffic Engineering IV 4	
18			Soil Mechanics HÜ 2	**Mobility Concepts**		
19			Soil Mechanics GÜ 2	Mobility Research and Transportation Projects PBL 3		**Bachelor Thesis**
20				Mobility in Megacities and Developing Countries SE 3		
21	**Engineering Informatics**	**Water and Environment**	**Structural Analysis I**		**Foundations of Management**	
22	Object-oriented Modelling IV 2	Water in the Environment VL 2	Structural Analysis I VL 2		Introduction to Management VL 3	
23	Object-oriented Modelling GÜ 2	Project on Water, Environment, Traffic PBL 2	Structural Analysis I HÜ 3		Exercise Introduction to Management GÜ 2	
24	Databases IV 1					
25	Databases GÜ 1					
26						
27	**Engineering Mechanics I (Stereostatics)**	**Engineering Mechanics II (Elastostatics)**				
28	Engineering Mechanics I VL 2	Engineering Mechanics II VL 2				
29	Engineering Mechanics I GÜ 2	Engineering Mechanics II GÜ 2				
30	Engineering Mechanics I HÜ 2	Engineering Mechanics II HÜ 2				
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.