

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									
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	Mathematics III - Differential Equations I Differential Equations 1 VL 2 Differential Equations 1 GÜ 1 Differential Equations 1 HÜ 1 Practical module 3 (dual study program, Bachelor's degree) Practical term 3 0	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						Introduction to Railways Introduction to Railways VL 2 Introduction to Railways HÜ 1			
4									
5						Geoinformation Science Introduction to Geoinformation Science PBL 3			
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	Structural Design Basics of Structural Design VL 2 Basics in Structural Design HÜ 1 Basics in Structural Design PBL 2	Sanitary Engineering I Wastewater Treatment VL 2 Wastewater Treatment 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	Planning Law and Environmental Law/ Sustainable Urban Development Planning law and Environmental law VL 2 Sustainable Urban Development VL 2			
8									
9									
10									
11									
12									
13	Mathematics I Mathematics I VL 4 Mathematics I HÜ 2 Mathematics I GÜ 2	Mathematics II Mathematics II VL 4 Mathematics II HÜ 2 Mathematics II GÜ 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 3	Applications in Civil + Environmental Engineering (part 1) Selection from a catalog	Bachelor thesis (dual study program)			
14									
15									
16									
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18									
19	Engineering Informatics Object-oriented Modelling IV 2 Object-oriented Modelling GÜ 2 Databases IV 1 Databases GÜ 1	Water and Environment Water in the Environment VL 2 Project on Water, Environment, Traffic PBL 2	Soil Mechanics Soil Mechanics VL 2 Soil Mechanics HÜ 2 Soil Mechanics GÜ 2	Mobility Concepts Mobility Research and Transportation Projects PBL 3 Mobility in Megacities and Developing Countries SE 3	Transportation Planning and Traffic Engineering Transport Planning and Traffic Engineering PBL 4	Foundations of Management Introduction to Management VL 3 Exercise Introduction to Management GÜ 2			
21									
22									
23									
24									
25									
26	Practical module 1 (dual study program, Bachelor's degree) Practical term 1 0	Practical module 2 (dual study program, Bachelor's degree) Practical term 2 0	Structural Analysis I Structural Analysis I VL 2 Structural Analysis I HÜ 3						
27									
28									
29									
30									
31									
32	Engineering Mechanics I (Stereostatics) Engineering Mechanics I VL 2 Engineering Mechanics I GÜ 2 Engineering Mechanics I HÜ 2	Engineering Mechanics II (Elastostatics) Engineering Mechanics II VL 2 Engineering Mechanics II GÜ 2 Engineering Mechanics II HÜ 2							
33									
34									
35									
36									
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.

