

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

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

Specialisation Civil Engineering																		
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			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		
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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			Practical module 3 (dual study program, Bachelor's degree) Practical term 3 0			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			Steel Structures II Steel Structures II VL 2 Steel Structures II HÜ 2		
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9																		
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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			Structural Design Basics of Structural Design VL 2 Basics in Structural Design HÜ 1 Basics in Structural Design PBL 2			Practical module 4 (dual study program, Bachelor's degree) Practical term 4 0			Practical module 5 (dual study program, Bachelor's degree) Practical term 5 0			Building Information Modeling Building Information Modeling IV 2 Building Information Modeling GÜ 2		
14																		
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16																		
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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			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			Reinforced Concrete Structures II Concrete Structures II VL 2 Concrete Structures II HÜ 2 Project Concrete Structures II PS 1		
21																		
22																		
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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			Soil Mechanics Soil Mechanics VL 2 Soil Mechanics HÜ 2 Soil Mechanics GÜ 2			Foundation Engineering Foundation Engineering VL 2 Foundation Engineering HÜ 2 Foundation Engineering GÜ 2			Structural Analysis III Structural Analysis III VL 2 Structural Analysis III HÜ 1			Bachelor thesis (dual study program)		
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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			Structural Analysis I Structural Analysis I VL 2 Structural Analysis I HÜ 3			Sustainable Building Circular flow economy and structural recycling IV 2 Sustainable building materials and buildings IV 2 Sustainable water management and hydraulic engineering IV 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.

