

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

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

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		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 Geoinformation Science Introduction to Geoinformation Science PBL 3	
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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		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		Sanitary Engineering II Drinking Water Treatment SE 2 Management of Wastewater Infrastructure SE 2			
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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 Hydromechanics and Hydrology Hydromechanics VL 2 Hydromechanics PBL 1 Hydrology VL 1 Hydrology PBL 1		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		Applied Water Management Modelling of soil water dynamics VL 2 Modelling of soil water dynamics PBL 2 Nature-oriented Hydraulic Engineering PBL 2	
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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		Soil Mechanics Soil Mechanics VL 2 Soil Mechanics HÜ 2 Soil Mechanics GÜ 2		Structural Analysis II Structural Analysis II VL 2 Structural Analysis II HÜ 3		Applications in Civil + Environmental Engineering (part 1) Selection from a catalog Transportation Planning and Traffic Engineering Transport Planning and Traffic Engineering PBL 4		Bachelor thesis (dual study program)	
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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		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					
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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		Renewable Energies Renewable Energies I VL 2 Renewable Energies II VL 2 Renewable Energies I HÜ 1 Fuels II VL 1							
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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.

