

Course of Study Civil- and Environmental Engineering (Study Cohort w21)

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

Specialisation: Traffic and Mobility		Form Hrs/wk	Semester 2	Form Hrs/wk	Semester 3	Form Hrs/wk	Semester 4	Form Hrs/wk	Semester 5	Form Hrs/wk	Semester 6	Form Hrs/wk	
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		Structural Design Basics of Structural Design VL 2 Basics in Structural Design HÜ 1 Basics in Structural Design PBL 2		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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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		Geotechnics I Soil Mechanics VL 2 Soil Mechanics HÜ 2 Soil Mechanics GÜ 2		Sanitary Engineering I Wastewater Disposal VL 2 Wastewater Disposal 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		Introduction to Railways Introduction to Railways VL 2 Introduction to Railways HÜ 1		
8													
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12													
13	Mathematics I Linear Algebra I VL 2 Linear Algebra I GÜ 1 Linear Algebra I HÜ 1 Analysis I VL 2 Analysis I GÜ 1 Analysis I HÜ 1		Mechanics II: Mechanics of Materials Mechanics II VL 2 Mechanics II GÜ 2 Mechanics II HÜ 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 2		Applications in Civil / Environmental Engineering (part 1) Selection from a catalog		Geoinformation Science Introduction to Geoinformation Science PBL 3		
14													
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19			Mechanics I (Statics) Mechanics I VL 2 Mechanics I GÜ 2 Mechanics I HÜ 1		Mathematics II Linear Algebra II VL 2 Linear Algebra II GÜ 1 Linear Algebra II HÜ 1 Analysis II VL 2 Analysis II HÜ 1 Analysis II GÜ 1		Structural Analysis I Structural Analysis I VL 2 Structural Analysis I HÜ 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		Planning Law and Environmental Law/ Sustainable Urban Development Planning law and Environmental law VL 2 Sustainable Urban Development VL 2
20													
21													
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24													
25			Mathematics III Analysis III VL 2 Analysis III GÜ 1 Analysis III HÜ 1 Differential Equations 1 VL 2 Differential Equations 1 GÜ 1 Differential Equations 1 HÜ 1					Foundations of Management Introduction to Management VL 3 Management Tutorial GÜ 2		Bachelor Thesis			
26													
27													
28													
29													
30													
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.

