Course of Study Civil Engineering (Study Cohort w18)

Sample course plan B Master Civil Engineering (BAUMS)
Specialisation Geotechnical Engineering

Legends

Core qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
Core qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

LP	Semester 1	Form	Hrs/wk	Semester 2	Form	Hrs/wk	Semester 3	Form	Hrs/wk	Semester 4	Form	Hrs/wk
1	**Finite Elements Methods**			**Building Materials and Building Preservation**			**Study Work Foundation Engineering**			**Selected Topics in Civil Engineering (part 2)**		
2	Finite Element Methods	VL	2	Mineral Building Materials	VL	2				Selection from a catalog		
3	Finite Element Methods	HÜ	2	Transport Processes in Building Materials and Damage Processes	VL	1						
4				Repair of Structures	VL	1				**Master Thesis**		
5				Technology of mineral Building Materials	PBL	1						
6				Anchor Technology and Design, Post Installed Rebar Connections	UE	1						
7	**Sustainability and Risk Management**			**Marine Geotechnics and Numerics**			**Concrete Structures**					
8	Environment and Sustainability	VL	2	Numerical Methods in Geotechnics	VL	3	Structural Concrete Members	VL	2			
9	Safety, Reliability and Risk Assessment	SE	2	Marine Geotechnics	VL	1	Structural Concrete Members	HÜ	2			
10				Marine Geotechnics	HÜ	1	Concrete Structures	SE	1			
11												
12												
13	**Advanced Foundation Engineering and Soil Laboratory Course**			**Soil Mechanics and -Dynamics**			**Selected Topics in Civil Engineering (part 1)**					
14	Advanced Foundation Engineering	VL	2	Soil Mechanics - Selected Topics	VL	2	Selection from a catalog					
15	Advanced Foundation Engineering	HÜ	1	Soil Dynamics	VL	3						
16	Soil Laboratory Course	PR	1	Experimental Researches in Geotechnics	PR	1	**Excavation Law and Projects**					
17							Subsoil and Underground Engineering Law	VL	2			
18							Project Geotechnics	PBL	2			
19	**Coastal Hydraulic Engineering I**			**Harbour Engineering and Harbour Planning**			Service Contract and Procurement Law	VL	2			
20	Basics of Coastal Engineering	VL	3	Port Planning and Port Construction	VL	2						
21	Basics of Coastal Engineering	PBL	1	Harbour Engineering	VL	2						
22				Harbour Engineering	PBL	1						
23												
24												
25	**Structures in Foundation and Hydraulic Engineering**											
26	Underground Constructions	VL	1									
27	Steel Structures in Foundation and Hydraulic Engineering	VL	2									
28	Underground Constructions	HÜ	1									
29												
30												
31												
32												
33												
	Business & Management (from catalogue) - 6LP											
	Nontechnical Elective Complementary Courses for Master (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.