Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w20)

Legend:

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

Sample course plan A Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7))

Specialisation Civil Engineering

1	**Chemistry** Chemistry I+II VL 4 Chemistry I+II HÜ 2	**Electrical Engineering II: Alternating Current Networks and Basic Devices** Electrical Engineering II: Alternating Current Networks and Basic Devices VL 3 Electrical Engineering II: Alternating Current Networks and Basic Devices GÜ 2	**Technical Thermodynamics II** Technical Thermodynamics II VL 2 Technical Thermodynamics II HÜ 1 Technical Thermodynamics II GÜ 1	**Signals and Systems** Signals and Systems VL 3 Signals and Systems GÜ 2	**Introduction to Control Systems** Introduction to Control Systems VL 2 Introduction to Control Systems GÜ 2	**Foundations of Management** Introduction to Management VL 3 Management Tutorial GÜ 2	**Advanced Internship AIW/ ES** Advanced Internship AIW/ ES: Preparation SE 1 Advanced Intenship AIW/ ES: Internship-accompanying Seminar SE 1
2							
3							
4							
5							
6							
7	**Electrical Engineering I: Direct Current Networks and Electromagnetic Fields** Electrical Engineering I: Direct Current Networks and Electromagnetic Fields VL 3 Electrical Engineering I: Direct Current Networks and Electromagnetic Fields GÜ 2	**Fundamentals of Mechanical Engineering Design** Fundamentals of Mechanical Engineering Design VL 2 Fundamentals of Mechanical Engineering Design HÜ 2	**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	**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	**Geoinformation Science** Introduction to Geoinformation Science PBL 3	
8							
9							
10						**Computational Structural Mechanics** Computational Stuctural Mechanics IV 2 Computational Structural Mechanics GÜ 1	
11							
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	**Technical Thermodynamics I** Technical Thermodynamics I VL 2 Technical Thermodynamics I HÜ 1 Technical Thermodynamics I GÜ 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	**Steel Structures II** Steel Structures II VL 2 Steel Structures II HÜ 2	
14							
15							
16							
17							
18							
19		**Mechanics II: Mechanics of Materials** Mechanics II VL 2 Mechanics II GÜ 2 Mechanics II HÜ 2	**Mechanics III (Dynamics)** Mechanics III VL 3 Mechanics III GÜ 2 Mechanics III HÜ 1	**Structural Analysis II** Structural Analysis II VL 2 Structural Analysis II HÜ 2	**Geotechnics I** Soil Mechanics VL 2 Soil Mechanics HÜ 2 Soil Mechanics GÜ 2	**Geotechnics II** Foundation Engineering VL 2 Foundation Engineering HÜ 2 Foundation Engineering GÜ 2	**Bachelor Thesis**
20							
21	**Mechanics I (Statics)** Mechanics I VL 2 Mechanics I GÜ 2 Mechanics I HÜ 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				
22							
23							
24							
25		**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			**Hydromechanics and Hydrology** Hydromechanics VL 2 Hydromechanics PBL 1 Hydrology VL 1 Hydrology PBL 1		
26							
27	**Programming in C** Programming in C VL 1 Programming in C PR 1		**Structural Analysis I** Structural Analysis I VL 2 Structural Analysis I HÜ 2				
28							
29	**Physics for Engineers (AIW)** Physics for Engineers VL 2 Physics for Engineers GÜ 1						
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.