Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w22)

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

Specialisation: Civil Engineering

#	Semester 1 — 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	Semester 7 — Form/Hrs/wk
1	**Chemistry**	**Electrical Engineering II: Alternating Current Networks and Basic Devices**	**Technical Thermodynamics II**	**Signals and Systems**	**Introduction to Control Systems**	**Foundations of Management**	**Advanced Internship AIW/ ES**
2	Chemistry I+II — VL 4	Electrical Engineering II: Alternating Current Networks and Basic Devices — VL 3	Technical Thermodynamics II — VL 2	Signals and Systems — VL 3	Introduction to Control Systems — VL 2	Introduction to Management — VL 3	Advanced Internship AIW/ ES: Preparation — SE 1
3	Chemistry I+II — HÜ 2	Electrical Engineering II: Alternating Current Networks and Basic Devices — GÜ 2	Technical Thermodynamics II — HÜ 1	Signals and Systems — GÜ 2	Introduction to Control Systems — GÜ 2	Management Tutorial — GÜ 2	Advanced Intenship AIW/ ES: Internship-accompanying Seminar — SE 1
4			Technical Thermodynamics II — GÜ 1				
5							
6							
7	**Electrical Engineering I: Direct Current Networks and Electromagnetic Fields**	**Fundamentals of Mechanical Engineering Design**	**Mathematics III**	**Building Materials and Building Chemistry**	**Structural Design**	**Geoinformation Science**	
8	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields — VL 3	Fundamentals of Mechanical Engineering Design — VL 2	Analysis III — VL 2	Building Materials and Building Chemistry — VL 4	Basics of Structural Design — VL 2	Introduction to Geoinformation Science — PBL 3	
9			Analysis III — GÜ 1	Building Materials and Building Chemistry — GÜ 1	Basics in Structural Design — HÜ 1		
10	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields — GÜ 2	Fundamentals of Mechanical Engineering Design — HÜ 2	Analysis III — HÜ 1		Basics in Structural Design — PBL 2		
11			Differential Equations 1 — VL 2			**Computational Structural Mechanics**	
12			Differential Equations 1 — GÜ 1			Computational Structural Mechanics — IV 2	
13	**Mathematics I**	**Technical Thermodynamics I**	Differential Equations 1 — HÜ 1	**Reinforced Concrete Structures I**	**Steel Structures I**	Computational Structural Mechanics — GÜ 1	
14	Mathematics I — VL 4	Technical Thermodynamics I — VL 2		Reinforced Concrete Design I — VL 2	Steel Structures I — VL 2	**Steel Structures II**	
15	Mathematics I — HÜ 2	Technical Thermodynamics I — HÜ 1		Reinforced Concrete Design I — HÜ 2	Steel Structures I — HÜ 2	Steel Structures II — VL 2	
16	Mathematics I — GÜ 2	Technical Thermodynamics I — GÜ 1	**Engineering Mechanics III (Dynamics)**	Project Seminar Concrete I — SE 1		Steel Structures II — HÜ 2	
17			Engineering Mechanics III — VL 3				
18			Engineering Mechanics III — GÜ 2				
19		**Mathematics II**	Engineering Mechanics III — HÜ 2	**Structural Analysis II**	**Geotechnics I**	**Geotechnics II**	**Bachelor Thesis**
20		Mathematics II — VL 4		Structural Analysis II — VL 2	Soil Mechanics — VL 2	Foundation Engineering — VL 2	
21	**Computer Science for Engineers - Introduction and Overview**	Mathematics II — HÜ 2		Structural Analysis II — HÜ 2	Soil Mechanics — HÜ 2	Foundation Engineering — HÜ 2	
22		Mathematics II — GÜ 2			Soil Mechanics — GÜ 2	Foundation Engineering — GÜ 2	
23	Computer Science for Engineers - Introduction and Overview — VL 3		**Principles of Building Materials and Building Physics**				
24	Computer Science for Engineers - Introduction and Overview — GÜ 2		Principles of Building Materials — VL 2				
25			Building Physics — VL 2		**Hydromechanics and Hydrology**		
26			Building Physics — HÜ 1		Hydromechanics — VL 2		
27	**Engineering Mechanics I (Stereostatics)**	**Engineering Mechanics II (Elastostatics)**	Building Physics — GÜ 1		Hydromechanics — PBL 1		
28	Engineering Mechanics I — VL 2	Engineering Mechanics II — VL 2	**Structural Analysis I**		Hydrology — VL 1		
29	Engineering Mechanics I — GÜ 2	Engineering Mechanics II — GÜ 2	Structural Analysis I — VL 2		Hydrology — PBL 1		
30	Engineering Mechanics I — HÜ 1	Engineering Mechanics II — HÜ 2	Structural Analysis I — HÜ 2				
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.