

Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w19)

Sample course plan B Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7))
Specialisation Civil Engineering

Legend:

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	Semester 2	Form	Semester 3	Form	Semester 4	Form	Semester 5	Form	Semester 6	Form	Semester 7	Form				
1	Chemistry		Electrical Engineering II: Alternating Current Networks and Basic Devices		Technical Thermodynamics II		Building Materials and Building Chemistry		Computer Engineering		Foundations of Management		Advanced Internship GES					
2		Chemistry I		VL 2		Technical Thermodynamics II		VL 2		Building Materials and Building Chemistry		VL 4		Computer Engineering	VL 3	Introduction to Management	VL 3	
3		Chemistry II		VL 2		Technical Thermodynamics II		HÜ 1		Building Materials and Building Chemistry		UE 1		Computer Engineering	UE 1	Management Tutorial	HÜ 2	
4		Chemistry I		HÜ 1		Electrical Engineering II: Alternating Current Networks and Basic Devices		UE 2		Technical Thermodynamics II		UE 1						
5		Chemistry II		HÜ 1														
6																		
7	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields		Fundamentals of Mechanical Engineering Design		Mathematics III		Reinforced Concrete I		Introduction to Control Systems		Structural Design							
8		Electrical Engineering I: Direct Current Networks and Electromagnetic Fields		VL 3		Fundamentals of Mechanical Engineering Design		VL 2		Analysis III		UE 1	Reinforced Concrete Design I	VL 2	Introduction to Control Systems	VL 2	Basics of Structural Design	VL 2
9										Analysis III		HÜ 1	Reinforced Concrete Design I	HÜ 2	Introduction to Control Systems	UE 2	Exercises in Structural Design	HÜ 1
10										Differential Equations 1		VL 2	Project Seminar Concrete I	SE 1	Introduction to Control Systems		Seminar in Structural Design	PBL2
11										Differential Equations 1		UE 1						
12					Differential Equations 1	HÜ 1												
13	Mathematics I		Technical Thermodynamics I		Mechanics III (Hydrostatics, Kinematics, Kinetics I)		Geotechnics I		Steel Structures I		Hydraulic Engineering II							
14		Linear Algebra I		VL 2		Technical Thermodynamics I		VL 2		Mechanics III		VL 3	Soil Mechanics	VL 2	Steel Structures I	VL 2	Hydraulics	VL 1
15		Linear Algebra I		UE 1						Mechanics III		UE 2	Soil Mechanics	HÜ 2	Steel Structures I	HÜ 2	Hydraulics	HÜ 1
16		Linear Algebra I		HÜ 1						Mechanics III		HÜ 1	Soil Mechanics	UE 2			Hydraulic Engineering	VL 2
17		Analysis I		VL 2													Hydraulic Engineering	HÜ 1
18	Analysis I	UE 1																
19	Analysis I	HÜ 1																
20			Mechanics II: Mechanics of Materials		Principles of Building Materials and Building Physics		Structural Analysis II		Hydraulic Engineering I		Applications in Civil and Environmental Engineering (part 2)		Bachelor Thesis					
21	Mechanics I (Statics)			Mechanics II		VL 2		Principles of Building Materials		VL 2		Structural Analysis II		VL 2	Hydromechanics	VL 2	Selection from a catalog	
22	Mechanics I	VL 2		Mechanics II		UE 2		Building Physics		VL 2		Structural Analysis II		HÜ 2	Hydromechanics	HÜ 1		
23	Mechanics I	UE 2		Mechanics II		HÜ 2		Building Physics		HÜ 1					Hydrology	VL 1		
24	Mechanics I	HÜ 1						Building Physics		UE 1					Hydrology	PBL1		
25																		
26			Mathematics II						Concrete Structures II									
27				Linear Algebra II	VL 2	Building Physics	UE 1				Concrete Structures II	VL 2						
			Linear Algebra II	UE 1						Concrete Structures II	HÜ 2							

28	Programming in C	Linear Algebra II	HÜ 1	Structural Analysis I	Project Concrete Structures II	PS 1
	Programming in C VL 1	Analysis II	VL 2	Structural Analysis I VL 2		
	Programming in C PR 1	Analysis II	HÜ 1	Structural Analysis I HÜ 2		
29	Physics for Engineers (AIW)	Analysis II	UE 1			
30	Physics for Engineers VL 2					
31	Physics for Engineers UE 1					
32					Applications in Civil and Environmental Engineering (part 1)	
33					Selection from a catalog	
Nontechnical Complementary 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.