

Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w18)

Sample course plan A 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	VL 2	Electrical Engineering II: Alternating Current Networks and Basic Devices	VL 3	Technical Thermodynamics II	VL 2	Building Materials and Building Chemistry	VL 4	Introduction to Control Systems	VL 2	Foundations of Management	VL 3	Advanced Internship AIW/ GES															
2															Chemistry I		Technical Thermodynamics II		Building Materials and Building Chemistry		Introduction to Control Systems		Introduction to Management					
3															Chemistry II		Electrical Engineering II: Alternating Current Networks and Basic Devices		Technical Thermodynamics II		Building Materials and Building Chemistry		Introduction to Control Systems		Management Tutorial			
4															Chemistry I			Technical Thermodynamics II		Building Materials and Building Chemistry				Introduction to Control Systems			Management Tutorial	
5															Chemistry I			Technical Thermodynamics II				Building Materials and Building Chemistry						Introduction to Control Systems
6															Chemistry II			Electrical Engineering II: Alternating Current Networks and Basic Devices		Technical Thermodynamics II						Building Materials and Building Chemistry		
7	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	VL 3	Fundamentals of Mechanical Engineering Design	VL 2	Mathematics III	VL 2	Reinforced Concrete I	VL 2	Computer Engineering	VL 3																		
8														Electrical Engineering I: Direct Current Networks and Electromagnetic Fields		Analysis III		Reinforced Concrete Design I		Computer Engineering								
9														Electrical Engineering I: Direct Current Networks and Electromagnetic Fields		Fundamentals of Mechanical Engineering Design		Analysis III		Reinforced Concrete Design I		Computer Engineering						
10															Electrical Engineering I: Direct Current Networks and Electromagnetic Fields				Analysis III				Reinforced Concrete Design I				Computer Engineering	
11															Electrical Engineering I: Direct Current Networks and Electromagnetic Fields				Differential Equations 1							Project Seminar Concrete I		
12															Electrical Engineering I: Direct Current Networks and Electromagnetic Fields				Fundamentals of Mechanical Engineering Design				Differential Equations 1					Project Seminar Concrete I
13	Mathematics I	VL 2	Technical Thermodynamics I	VL 2	Mechanics III (Hydrostatics, Kinematics, Kinetics I)	VL 3	Geotechnics I	VL 2	Structural Design	VL 2																		
14														Linear Algebra I		Technical Thermodynamics I		Soil Mechanics		Basics of Structural Design								
15														Linear Algebra I		Technical Thermodynamics I		Mechanics III		Soil Mechanics		Basics in Structural Design						
16														Linear Algebra I			Technical Thermodynamics I				Mechanics III					Basics in Structural Design		
17														Linear Algebra I			Technical Thermodynamics I						Mechanics III					Basics in Structural Design
18														Analysis I			Technical Thermodynamics I				Mechanics III						Basics in Structural Design	
19	Analysis I		Mechanics II: Mechanics of Materials		Mechanics III		Structural Analysis II		Steel Structures I		Bachelor Thesis																	
20	Analysis I			Mechanics II				Structural Analysis II				Steel Structures I																
21	Mechanics I (Statics)	VL 2	Mechanics II	VL 2	Principles of Building Materials and Building Physics	VL 2	Structural Analysis II		VL 2	Steel Structures I			VL 2															
22								Mechanics I							Mechanics II		Principles of Building Materials		Steel Structures I									
23								Mechanics I							Mechanics II			Building Physics			Steel Structures I							
24								Mechanics I							Mechanics II		Building Physics			Steel Structures I								
25	Mechanics I		Mathematics II	VL 2	Building Physics	VL 2	Hydromechanics and Hydrology	VL 2																				
26	Mechanics I									Linear Algebra II		Building Physics		Hydromechanics														

		Linear Algebra II	UE 1	Building Physics	UE 1			
27	Programming in C	Linear Algebra II	HÜ 1	Structural Analysis I		Hydromechanics	PBL1	
28		Analysis II	VL 2		Structural Analysis I	VL 2	Hydrology	VL 1
		Analysis II	HÜ 1		Structural Analysis I	HÜ 2	Hydrology	PBL1
	Programming in C	VL 1						
	Programming in C	PR 1						
29	Physics for Engineers (AIW)	Analysis II	UE 1					
30								
31		Physics for Engineers	VL 2					
32	Physics for Engineers	UE 1						
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.