

# 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 B Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7))

Specialisation: Electrical Engineering	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7
	FormHrs/wk	FormHrs/wk	FormHrs/wk	FormHrs/wk	FormHrs/wk	FormHrs/wk
1	<b>Chemistry</b>	<b>Electrical Engineering II: Alternating Current Networks and Basic Devices</b>	<b>Technical Thermodynamics II</b>	<b>Signals and Systems</b>	<b>Introduction to Control Systems</b>	<b>Foundations of Management</b>
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
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
4						
5						
6						
7	<b>Electrical Engineering I: Direct Current Networks and Electromagnetic Fields</b>	<b>Fundamentals of Mechanical Engineering Design</b>	<b>Mathematics III</b>	<b>Theoretical Electrical Engineering I: Time-Independent Fields</b>	<b>Theoretical Electrical Engineering II: Time-Dependent Fields</b>	<b>Electrical Engineering Project Laboratory</b>
8	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields VL 3	Fundamentals of Mechanical Engineering Design VL 2	Analysis III VL 2	Theoretical Electrical Engineering I: Time-Independent Fields VL 3	Theoretical Electrical Engineering II: Time-Dependent Fields VL 3	Electrical Engineering Project Laboratory PBL 8
9	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields GÜ 2	Fundamentals of Mechanical Engineering Design HÜ 2	Analysis III GÜ 1	Theoretical Electrical Engineering I: Time-Independent Fields GÜ 2	Theoretical Electrical Engineering II: Time-Dependent Fields GÜ 2	
10			Differential Equations 1 VL 2			
11			Differential Equations 1 GÜ 1			
12			Differential Equations 1 HÜ 1			
13	<b>Mathematics I</b>	<b>Technical Thermodynamics I</b>		<b>Materials in Electrical Engineering</b>	<b>Introduction to Communications and Random Processes</b>	<b>Semiconductor Circuit Design</b>
14	Linear Algebra I VL 2	Technical Thermodynamics I VL 2		Materials in Electrical Engineering VL 2	Introduction to Communications and Random Processes VL 3	Semiconductor Circuit Design VL 3
15	Linear Algebra I GÜ 1	Technical Thermodynamics I HÜ 1	<b>Mechanics III (Dynamics)</b>	Materials in Electrical Engineering GÜ 2	Introduction to Communications and Random Processes HÜ 1	Semiconductor Circuit Design GÜ 1
16	Linear Algebra I HÜ 1	Technical Thermodynamics I GÜ 1	Mechanics III VL 3	Electrotechnical Experiments VL 1	Introduction to Communications and Random Processes GÜ 1	
17	Analysis I VL 2		Mechanics III GÜ 2			
18	Analysis I GÜ 1		Mechanics III HÜ 1			
19	Analysis I HÜ 1					
20		<b>Mechanics II: Mechanics of Materials</b>		<b>Mathematics IV</b>	<b>Electronic Devices</b>	<b>Bachelor Thesis</b>
21		Mechanics II VL 2		Complex Functions VL 2	Electronic Devices VL 3	
22	<b>Mechanics I (Statics)</b>	Mechanics II GÜ 2	<b>Electrical Engineering III: Circuit Theory and Transients</b>	Complex Functions GÜ 1	Electronic Devices PBL 2	
23	Mechanics I VL 2	Mechanics II HÜ 2	Circuit Theory VL 3	Complex Functions HÜ 1		
24	Mechanics I GÜ 2		Circuit Theory GÜ 2	Differential Equations 2 VL 2		
25	Mechanics I HÜ 1			Differential Equations 2 GÜ 1		
26		<b>Mathematics II</b>		Differential Equations 2 HÜ 1		
27		Linear Algebra II VL 2	<b>Computer Engineering</b>	<b>Introduction to Waveguides, Antennas, and Electromagnetic Compatibility</b>	<b>Measurements: Methods and Data Processing</b>	
28	Programming in C VL 1	Linear Algebra II GÜ 1	Computer Engineering VL 3	Introduction to Waveguides, Antennas, and Electromagnetic Compatibility VL 3	Measurements: Methods and Data Processing VL 2	
29	Programming in C PR 1	Linear Algebra II HÜ 1	Computer Engineering GÜ 1	Introduction to Waveguides, Antennas, and Electromagnetic Compatibility GÜ 2	Measurements: Methods and Data Processing GÜ 1	
30		Analysis II VL 2			EE Experimental Lab PR 2	
31		Analysis II HÜ 1				
32		Analysis II GÜ 1				

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.

