

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

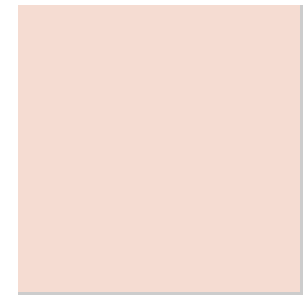
Sample course plan B Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7))  
Specialisation Electrical Engineering

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	<b>Chemistry</b>		<b>Electrical Engineering II: Alternating Current Networks and Basic Devices</b>		<b>Technical Thermodynamics II</b>		<b>Theoretical Electrical Engineering I: Time-Independent Fields</b>		<b>Introduction to Control Systems</b>		<b>Foundations of Management</b>		<b>Advanced Internship GES</b>						
2		Chemistry I		VL 2		Electrical Engineering II: Alternating Current Networks and Basic Devices		VL 3		Technical Thermodynamics II		VL 2		Theoretical Electrical Engineering I: Time-Independent Fields	VL 3	Introduction to Control Systems	VL 2	Foundations of Management	VL 3
3		Chemistry II		VL 2		Electrical Engineering II: Alternating Current Networks and Basic Devices		VL 3		Technical Thermodynamics II		HÜ 1		Theoretical Electrical Engineering I: Time-Independent Fields	UE 2	Introduction to Control Systems	UE 2	Foundations of Management	HÜ 2
4		Chemistry I		HÜ 1		Electrical Engineering II: Alternating Current Networks and Basic Devices		UE 2		Technical Thermodynamics II		UE 1		Theoretical Electrical Engineering I: Time-Independent Fields	UE 2	Introduction to Control Systems	UE 2	Foundations of Management	HÜ 2
5		Chemistry II		HÜ 1		Electrical Engineering II: Alternating Current Networks and Basic Devices		UE 2		Technical Thermodynamics II		UE 1		Theoretical Electrical Engineering I: Time-Independent Fields	UE 2	Introduction to Control Systems	UE 2	Foundations of Management	HÜ 2
6		Chemistry II		HÜ 1		Electrical Engineering II: Alternating Current Networks and Basic Devices		UE 2		Technical Thermodynamics II		UE 1		Theoretical Electrical Engineering I: Time-Independent Fields	UE 2	Introduction to Control Systems	UE 2	Foundations of Management	HÜ 2
7	<b>Electrical Engineering I: Direct Current Networks and Electromagnetic Fields</b>		<b>Fundamentals of Mechanical Engineering Design</b>		<b>Mathematics III</b>		<b>Signals and Systems</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		Mathematics III		VL 2		Signals and Systems	VL 3	Theoretical Electrical Engineering II: Time-Dependent Fields	VL 3	Electrical Engineering Project Laboratory	PBL8
9		Electrical Engineering I: Direct Current Networks and Electromagnetic Fields		VL 3		Fundamentals of Mechanical Engineering Design		VL 2		Mathematics III		UE 1		Signals and Systems	UE 2	Theoretical Electrical Engineering II: Time-Dependent Fields	VL 3	Electrical Engineering Project Laboratory	PBL8
10		Electrical Engineering I: Direct Current Networks and Electromagnetic Fields		VL 3		Fundamentals of Mechanical Engineering Design		VL 2		Mathematics III		HÜ 1		Signals and Systems	UE 2	Theoretical Electrical Engineering II: Time-Dependent Fields	VL 3	Electrical Engineering Project Laboratory	PBL8
11		Electrical Engineering I: Direct Current Networks and Electromagnetic Fields		VL 3		Fundamentals of Mechanical Engineering Design		HÜ 2		Differential Equations 1		VL 2		Signals and Systems	UE 2	Theoretical Electrical Engineering II: Time-Dependent Fields	UE 2	Electrical Engineering Project Laboratory	PBL8
12	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	UE 2	Fundamentals of Mechanical Engineering Design	HÜ 2	Differential Equations 1	UE 1	Signals and Systems	UE 2	Theoretical Electrical Engineering II: Time-Dependent Fields	UE 2	Electrical Engineering Project Laboratory	PBL8							
13	<b>Mathematics I</b>		<b>Technical Thermodynamics I</b>		<b>Mechanics III (Hydrostatics, Kinematics, Kinetics 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		Mechanics III		VL 3		Materials in Electrical Engineering	VL 2	Introduction to Communications and Random Processes	VL 3	Semiconductor Circuit Design	VL 3
15		Linear Algebra I		UE 1		Technical Thermodynamics I		HÜ 1		Mechanics III		UE 2		Materials in Electrical Engineering	UE 2	Introduction to Communications and Random Processes	VL 3	Semiconductor Circuit Design	UE 1
16		Linear Algebra I		HÜ 1		Technical Thermodynamics I		HÜ 1		Mechanics III		UE 2		Materials in Electrical Engineering	UE 2	Introduction to Communications and Random Processes	HÜ 1	Semiconductor Circuit Design	UE 1
17		Analysis I		VL 2		Technical Thermodynamics I		UE 1		Mechanics III		HÜ 1		Materials in Electrical Engineering	UE 2	Introduction to Communications and Random Processes	HÜ 1	Semiconductor Circuit Design	UE 1
18		Analysis I		UE 1		Technical Thermodynamics I		UE 1		Mechanics III		HÜ 1		Electrotechnical Experiments	VL 1	Introduction to Communications and Random Processes	HÜ 1	Semiconductor Circuit Design	UE 1
18		Analysis I		HÜ 1		Technical Thermodynamics I		UE 1		Mechanics III		HÜ 1		Electrotechnical Experiments	VL 1	Introduction to Communications and Random Processes	HÜ 1	Semiconductor Circuit Design	UE 1
19	<b>Mechanics I (Statics)</b>		<b>Mechanics II: Mechanics of Materials</b>		<b>Computer Engineering</b>		<b>Mathematics IV</b>		<b>Electronic Devices</b>				<b>Bachelor Thesis</b>						
20		Mechanics I		VL 2		Mechanics II: Mechanics of Materials		VL 2		Computer Engineering				VL 3	Mathematics IV	VL 2	Electronic Devices	VL 3	
21		Mechanics I		UE 2		Mechanics II: Mechanics of Materials		UE 2		Computer Engineering				UE 1	Mathematics IV	UE 1	Electronic Devices	PBL2	
22		Mechanics I		HÜ 2		Mechanics II: Mechanics of Materials		HÜ 2		Computer Engineering				HÜ 1	Mathematics IV	HÜ 1	Electronic Devices	PBL2	
23		Mechanics I		UE 2		Mechanics II: Mechanics of Materials		HÜ 2		Computer Engineering				UE 1	Mathematics IV	UE 1	Electronic Devices	PBL2	
24	Mechanics I	HÜ 1	Mechanics II: Mechanics of Materials	HÜ 2	Computer Engineering	UE 1	Mathematics IV	HÜ 1	Electronic Devices	PBL2									
25			<b>Mathematics II</b>				<b>Introduction to Waveguides,</b>		<b>Measurements: Methods and</b>										

26		Linear Algebra II	VL 2		<b>Antennas, and Electromagnetic Compatibility</b>	<b>Data Processing</b>
27	<b>Programming in C</b>	Linear Algebra II	UE 1	<b>Electrical Engineering III: Circuit Theory and Transients</b>	Introduction to Waveguides, Antennas, and Electromagnetic Compatibility	Measurements: VL 2
28		Linear Algebra II	HÜ 1			VL 3
	Programming in C	Analysis II	VL 2	Circuit Theory	VL 3	Measurements: UE 1
	Programming in C	Analysis II	HÜ 1	Circuit Theory	UE 2	Methods and Data Processing
29	<b>Physics for Engineers (AIW)</b>	Analysis II	UE 1			EE Experimental Lab
30		Physics for Engineers	VL 2			PR 2
	Physics for Engineers		UE 1			
31						
32						



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.