

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

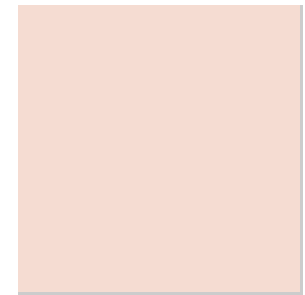
Sample course plan A Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7))
Specialisation Electrical Engineering

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

26		Linear Algebra II	VL 2		Antennas, and Electromagnetic Compatibility	Introduction to Electrical Power Systems
27	Programming in C	Linear Algebra II	UE 1	Electrical Engineering III: Circuit Theory and Transients	Introduction to Waveguides, Antennas, and Electromagnetic Compatibility	Electrical Power Systems I: Introduction to Electrical Power Systems
28		Linear Algebra II	HÜ 1			VL 3
	Programming in C	VL 1		Circuit Theory	VL 3	
	Programming in C	PR 1		Circuit Theory	UE 2	
29	Physics for Engineers (AIW)	Analysis II	HÜ 1		Introduction to Waveguides, Antennas, and Electromagnetic Compatibility	Electrical Power Systems I: Introduction to Electrical Power Systems
30		Analysis II	UE 1		UE 2	HÜ 2
		Physics for Engineers	VL 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.