

Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w16)

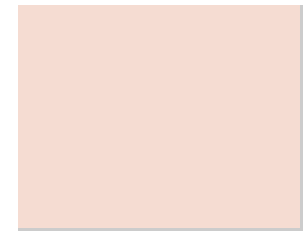
Sample course plan B Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7))
Specialisation Electrical Engineering

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	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		Technical Thermodynamics II		VL 2		Theoretical Electrical Engineering I: Time-Independent Fields		VL 3		Introduction to Control Systems	VL 2	Introduction to 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	HÜ 2	Management Tutorial	
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				
5		Chemistry II		HÜ 1															
6																			
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: Direct Current Networks and Electromagnetic Fields		VL 3		Fundamentals of Mechanical Engineering Design		VL 2		Analysis III		VL 2	Signals and Systems	VL 3	Theoretical Electrical Engineering II: Time-Dependent Fields	VL 3	Electrical Engineering Project Laboratory	PBL5	
9		Electrical Engineering I: Direct Current Networks and Electromagnetic Fields		UE 2		Fundamentals of Mechanical Engineering Design		HÜ 2		Analysis III		HÜ 1	Signals and Systems	HÜ 1	Theoretical Electrical Engineering II: Time-Dependent Fields	UE 2			
10		Electrical Engineering I: Direct Current Networks and Electromagnetic Fields		UE 2		Fundamentals of Mechanical Engineering Design		HÜ 2		Differential Equations 1		VL 2			Theoretical Electrical Engineering II: Time-Dependent Fields	UE 2			
11		Electrical Engineering I: Direct Current Networks and Electromagnetic Fields		UE 2		Fundamentals of Mechanical Engineering Design		HÜ 2		Differential Equations 1		UE 1			Theoretical Electrical Engineering II: Time-Dependent Fields	UE 2			
12	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	HÜ 1	Fundamentals of Mechanical Engineering Design	HÜ 2	Differential Equations 1	HÜ 1			Theoretical Electrical Engineering II: Time-Dependent Fields	UE 2									
13	Mathematics I		Technical Thermodynamics I		Mechanics III (Hydrostatics, Kinematics, Kinetics I)		Electrical Engineering IV: Transmission Lines and Research Seminar		Introduction to Communications and Random Processes		Semiconductor Circuit Design								
14		Linear Algebra I		VL 2		Technical Thermodynamics I		VL 2		Mechanics III		VL 3	Transmission Line Theory	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	Research Seminar	SE 2	Introduction to Communications and Random Processes	HÜ 1	Semiconductor Circuit Design	UE 1	
16		Linear Algebra I		HÜ 1		Technical Thermodynamics I		UE 1		Mechanics III		HÜ 1	Electrical Engineering, Computer Science, Mathematics		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	Transmission Line Theory	HÜ 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	Transmission Line Theory	HÜ 2	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	Transmission Line Theory	HÜ 2	Introduction to Communications and Random Processes	HÜ 1	Semiconductor Circuit Design	UE 1							
20			Mechanics II: Mechanics of Materials		Computer Engineering		Materials in Electrical Engineering		Electronic Devices				Bachelor Thesis						
21	Mechanics I (Statics)			Mechanics II		VL 2		Computer Engineering		VL 3				Materials in Electrical Engineering	VL 2	Electronic Devices	VL 3		
22	Mechanics I	VL 2		Mechanics II		UE 2		Computer Engineering		UE 1				Materials in Electrical Engineering	UE 2	Electronic Devices	PBL2		
23	Mechanics I	UE 2		Mechanics II		HÜ 2		Computer Engineering		UE 1				Materials in Electrical Engineering	UE 2	Electronic Devices	PBL2		
24	Mechanics I	HÜ 1		Mechanics II		HÜ 2		Computer Engineering		UE 1				Materials in Electrical Engineering	UE 2	Electronic Devices	PBL2		
25							Electrotechnical Experiments	VL 1											
26			Mathematics II				Mathematics IV		Measurements: Methods and										

27	Programming in C	Linear Algebra II	VL 2	Electrical Engineering III: Circuit Theory and Transients	Complex Functions	VL 2	Data Processing		
28		Programming in C	VL 1		Linear Algebra II	UE 1		Complex Functions	UE 1
	Programming in C	PR 1		Linear Algebra II	HÜ 1	Complex Functions	HÜ 1	Methods and Data Processing	
29	Physics for Engineers (AIW)	Analysis II	VL 2	Circuit Theory	VL 3	Differential Equations 2	VL 2	Measurements: UE 1	
30		Physics for Engineers	VL 2	Analysis II	HÜ 1	Circuit Theory	UE 2	Differential Equations 2	UE 1
		Physics for Engineers	UE 1	Analysis II	UE 1		Differential Equations 2	HÜ 1	Methods and Data Processing
31								EE Experimental Lab	PR 2
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.