

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

Sample course plan A Bachelor General Engineering Science (English program, 7 semester) (GESBS(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 (GES)		Fundamentals of Mechanical Engineering Design		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		Fundamentals of Mechanical Engineering Design		VL 2		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		Fundamentals of Mechanical Engineering Design		VL 2		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
4		Chemistry I		HÜ 1		Fundamentals of Mechanical Engineering Design		HÜ 1		Technical Thermodynamics II		HÜ 1		Theoretical Electrical Engineering I: Time-Independent Fields	HÜ 1	Introduction to Control Systems	UE 2	Foundations of Management	HÜ 2
5		Chemistry II		HÜ 1		Fundamentals of Mechanical Engineering Design		HÜ 1		Technical Thermodynamics II		HÜ 1		Theoretical Electrical Engineering I: Time-Independent Fields	HÜ 1	Introduction to Control Systems	UE 2	Foundations of Management	HÜ 2
6		Chemistry II		HÜ 1		Fundamentals of Mechanical Engineering Design		HÜ 1		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	Linear Algebra		Technical Thermodynamics I		Mathematics III		Signals and Systems		Theoretical Electrical Engineering II: Time-Dependent Fields		Electrical Engineering Project Laboratory								
8		Linear Algebra		VL 4		Technical Thermodynamics I		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		Linear Algebra		HÜ 2		Technical Thermodynamics I		HÜ 1		Analysis III		UE 1	Signals and Systems	HÜ 1	Theoretical Electrical Engineering II: Time-Dependent Fields	VL 3	Electrical Engineering Project Laboratory	PBL5	
10		Linear Algebra		UE 2		Technical Thermodynamics I		HÜ 1		Analysis III		HÜ 1	Signals and Systems	HÜ 1	Theoretical Electrical Engineering II: Time-Dependent Fields	VL 3	Electrical Engineering Project Laboratory	PBL5	
11		Linear Algebra		UE 2		Technical Thermodynamics I		HÜ 1		Analysis III		HÜ 1	Signals and Systems	HÜ 1	Theoretical Electrical Engineering II: Time-Dependent Fields	VL 3	Electrical Engineering Project Laboratory	PBL5	
12		Linear Algebra		UE 2		Technical Thermodynamics I		UE 1		Differential Equations 1		VL 2	Signals and Systems	HÜ 1	Theoretical Electrical Engineering II: Time-Dependent Fields	UE 2	Electrical Engineering Project Laboratory	PBL5	
13	Electrical Engineering I		Mathematical Analysis		Mechanics III (GES)		Electrical Engineering IV: Transmission Lines and Research Seminar		Introduction to Communications and Random Processes		Semiconductor Circuit Design								
14		Electrical Engineering I		VL 3		Mathematical Analysis		VL 4		Mechanics III		HÜ 1	Transmission Line Theory	VL 2	Introduction to Communications and Random Processes	VL 3	Semiconductor Circuit Design	VL 3	
15		Electrical Engineering I		UE 2		Mathematical Analysis		HÜ 2		Mechanics III		UE 2	Transmission Line Theory	VL 2	Introduction to Communications and Random Processes	VL 3	Semiconductor Circuit Design	VL 3	
16		Electrical Engineering I		UE 2		Mathematical Analysis		UE 2		Mechanics III		UE 2	Research Seminar	SE 2	Introduction to Communications and Random Processes	HÜ 1	Semiconductor Circuit Design	UE 1	
17		Electrical Engineering I		UE 2		Mathematical Analysis		UE 2		Mechanics III		UE 2	Electrical Engineering, Computer Science, Mathematics	HÜ 1	Introduction to Communications and Random Processes	HÜ 1	Semiconductor Circuit Design	UE 1	
18		Electrical Engineering I		UE 2		Mathematical Analysis		UE 2		Mechanics III		VL 3	Transmission Line Theory	HÜ 2	Introduction to Communications and Random Processes	HÜ 1	Semiconductor Circuit Design	UE 1	
19	Mechanics I (GES)		Electrical Engineering II		Computer Engineering		Materials in Electrical Engineering		Electronic Devices		Bachelor Thesis								
20		Mechanics I		VL 2		Electrical Engineering II		VL 3		Computer Engineering		VL 3	Materials in Electrical Engineering	VL 2	Electronic Devices	VL 3	Bachelor Thesis		
21		Mechanics I		HÜ 3		Electrical Engineering II		UE 2		Computer Engineering		UE 1	Materials in Electrical Engineering	UE 2	Electronic Devices	PBL2	Bachelor Thesis		
22		Mechanics I		HÜ 3		Electrical Engineering II		UE 2		Computer Engineering		UE 1	Materials in Electrical Engineering	UE 2	Electronic Devices	PBL2	Bachelor Thesis		
23		Mechanics I		HÜ 3		Electrical Engineering II		UE 2		Computer Engineering		UE 1	Electrotechnical Experiments	VL 1	Electronic Devices	PBL2	Bachelor Thesis		
24		Mechanics I		HÜ 3		Electrical Engineering II		UE 2		Computer Engineering		UE 1	Electrotechnical Experiments	VL 1	Electronic Devices	PBL2	Bachelor Thesis		
25	Programming in C		Mechanics II (GES)		Electrical Engineering III: Circuit Theory and Transients		Mathematics IV		Electrical Power Systems I		Bachelor Thesis								
26		Programming in C		VL 1		Mechanics II		VL 2		Electrical Engineering III: Circuit Theory and Transients		VL 2	Mathematics IV	VL 2	Electrical Power Systems I	VL 3	Bachelor Thesis		
27		Programming in C		VL 1		Mechanics II		VL 2		Electrical Engineering III: Circuit Theory and Transients		UE 1	Mathematics IV	UE 1	Electrical Power Systems I	HÜ 2	Bachelor Thesis		
28		Programming in C		VL 1		Mechanics II		VL 2		Electrical Engineering III: Circuit Theory and Transients		HÜ 1	Mathematics IV	HÜ 1	Electrical Power Systems I	HÜ 2	Bachelor Thesis		

	Programming in C	PR 1	Mechanics II	HÜ 2	Circuit Theory	VL 3	Differential Equations 2	VL 2	
29	Physics for Engineers (GES)				Circuit Theory	UE 2	Differential Equations 2	UE 1	
30	Physics for Engineers	VL 2					Differential Equations 2	HÜ 1	
31	Physics for Engineers	UE 1							
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.