Course of Study General Engineering Science (English program) (Study Cohort w15)

Sample course plan - Bachelor General Engineering Science (English program) (GESBS)
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	FormHrs/wk	Semester 2	FormHrs/wk	Semester 3	FormHrs/wk	Semester 4	FormHrs/wk	Semester 5	FormHrs/wk	Semester 6	FormHrs/wk
1	**Chemistry (GES)**		**Physics for Engineers (GES) (part 2)**		**Technical Thermodynamics II**		**Theoretical Electrical Engineering I: Time-Independent Fields**		**Introduction to Control Systems**		**Foundations of Management**	
2	Chemistry I	VL 2	Physics-Lab for ET/ AIW/ GES	PR 1	Technical Thermodynamics II	VL 2	Theoretical Electrical Engineering I: Time-Independent Fields	VL 3	Introduction to Control Systems	VL 2	Introduction to Management	VL 4
3	Chemistry II	VL 2	**Fundamentals of Mechanical Engineering Design**		Technical Thermodynamics II	HÜ 1	Theoretical Electrical Engineering I: Time-Independent Fields	UE 2	Introduction to Control Systems	UE 2	Project Entrepreneurship	POL 2
4	Chemistry I	HÜ 1	Fundamentals of Mechanical Engineering Design	VL 2	Technical Thermodynamics II	UE 1						
5	Chemistry II	HÜ 1	Fundamentals of Mechanical Engineering Design	HÜ 2								
6												
7	**Linear Algebra**				**Computer Engineering**		**Signals and Systems**		**Theoretical Electrical Engineering II: Time-Dependent Fields**		**Semiconductor Circuit Design**	
8	Linear Algebra	VL 4			Computer Engineering	VL 3	Signals and Systems	VL 3	Theoretical Electrical Engineering II: Time-Dependent Fields	VL 3	Semiconductor Circuit Design	VL 3
9	Linear Algebra	HÜ 2	**Technical Thermodynamics I**		Computer Engineering	UE 1	Signals and Systems	HÜ 1	Theoretical Electrical Engineering II: Time-Dependent Fields	UE 2	Semiconductor Circuit Design	UE 1
10	Linear Algebra	UE 2	Technical Thermodynamics I	VL 2								
11			Technical Thermodynamics I	HÜ 1								
12			Technical Thermodynamics I	UE 1								
13					**Mathematics III**		**Electrical Engineering IV: Transmission Lines and Research Seminar**		**Introduction to Communications and Random Processes**		**Bachelor Thesis**	
14					Analysis III	VL 2	Transmission Line Theory	VL 2	Introduction to Communications and Random Processes	VL 3		
15	**Electrical Engineering I**		**Mathematical Analysis**		Analysis III	UE 1	Research Seminar Electrical Engineering, Computer Science, Mathematics	SE 2	Introduction to Communications and Random Processes	HÜ 1		
16	Electrical Engineering I	VL 3	Mathematical Analysis	VL 4	Analysis III	HÜ 1	Transmission Line Theory	HÜ 2				
17	Electrical Engineering I	UE 2	Mathematical Analysis	HÜ 2	Differential Equations 1	VL 2						
18			Mathematical Analysis	UE 2	Differential Equations 1	UE 1						
19					Differential Equations 1	HÜ 1	**Electrical Engineering Project Laboratory**		**Electronic Devices**			
20							Electrical Engineering Project Laboratory	PR 5	Electronic Devices	VL 3		
21	**Mechanics I (GES)**				**Mechanics III (GES)**				Electronic Devices	POL 2		
22	Mechanics I	VL 2			Mechanics III	HÜ 1						
23	Mechanics I	HÜ 3	**Electrical Engineering II**		Mechanics III	UE 2						
24			Electrical Engineering II	VL 3	Mechanics III	VL 3						
25			Electrical Engineering II	UE 2			**Materials in Electrical Engineering**		**Measurements: Methods and Data Processing**			
26							Materials in Electrical Engineering	VL 2	Measurements: Methods and Data Processing	VL 2		
27	**Physics for Engineers (GES) (part 1)**				**Electrical Engineering III: Circuit Theory and Transients**		Materials in Electrical Engineering	UE 2	Measurements: Methods and Data Processing	UE 1		
28	Physics for Engineers	VL 2			Circuit Theory	VL 3	Electrotechnical Experiments	VL 1	EE Experimental Lab	PR 2		
29	Physics for Engineers	UE 1			Circuit Theory	UE 2						
30			**Mechanics II (GES)**									
31			Mechanics II	VL 2			**Mathematics IV**					
32			Mechanics II	HÜ 2			Complex Functions	VL 2				
33							Complex Functions	UE 1				
34							Complex Functions	HÜ 1				
							Differential Equations 2	VL 2				

35		**Programming in C**	Differential Equations 2 UE 1
36		Programming in C VL 1 Programming in C PR 1	Differential Equations 2 HÜ 1

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.