Course of Study General Engineering Science (English program, 7 semester) (Study Cohort w17)

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	Hrs/wk	Semester 2	Form	Hrs/wk	Semester 3	Form	Hrs/wk	Semester 4	Form	Hrs/wk	Semester 5	Form	Hrs/wk	Semester 6	Form	Hrs/wk	Semester 7	Form	Hrs/wk
1	**Chemistry (GES)**			**Technical Thermodynamics I**			**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 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	Technical Thermodynamics I	HÜ	1	Technical Thermodynamics II	HÜ	1	Theoretical Electrical Engineering I: Time-Independent Fields	UE	2	Introduction to Control Systems	UE	2	Management Tutorial	HÜ	2			
4	Chemistry I	HÜ	1	Technical Thermodynamics I	UE	1	Technical Thermodynamics II	UE	1												
5	Chemistry II	HÜ	1																		
6																					
7	**Linear Algebra**			**Mathematical Analysis**			**Mathematics III**			**Signals and Systems**			**Introduction to Communications and Random Processes**			**Electrical Engineering Project Laboratory**					
8	Linear Algebra	VL	4	Mathematical Analysis	VL	4	Analysis III	VL	2	Signals and Systems	VL	3	Introduction to Communications and Random Processes	VL	3	Electrical Engineering Project Laboratory	PBL	8			
9	Linear Algebra	HÜ	2	Mathematical Analysis	HÜ	2	Analysis III	UE	1	Signals and Systems	UE	2	Introduction to Communications and Random Processes	HÜ	1						
10	Linear Algebra	UE	2	Mathematical Analysis	UE	2	Analysis III	HÜ	1												
11							Differential Equations 1	VL	2												
12							Differential Equations 1	UE	1												
13							Differential Equations 1	HÜ	1	**Electrical Engineering IV: Transmission Lines and Research Seminar**			**Electronic Devices**			**Semiconductor Circuit Design**					
14										Transmission Line Theory	VL	2	Electronic Devices	VL	3	Semiconductor Circuit Design	VL	3			
15	**Electrical Engineering I**			**Electrical Engineering II**			**Mechanics III (GES)**			Research Seminar Electrical Engineering, Computer Science, Mathematics	SE	2	Electronic Devices	PBL	2	Semiconductor Circuit Design	UE	1			
16	Electrical Engineering I	VL	3	Electrical Engineering II	VL	3	Mechanics III	HÜ	1	Transmission Line Theory	HÜ	2									
17	Electrical Engineering I	UE	2	Electrical Engineering II	UE	2	Mechanics III	UE	2												
18							Mechanics III	VL	3												
19										**Materials in Electrical Engineering**			**Electromagnetics for Engineers II: Time-Dependent Fields**						**Bachelor Thesis**		
20										Materials in Electrical Engineering	VL	2	Electromagnetics for Engineers II: Time-Dependent Fields	VL	3						
21	**Mechanics I (GES)**			**Mechanics II (GES)**			**Computer Engineering**			Materials in Electrical Engineering	UE	2	Electromagnetics for Engineers II: Time-Dependent Fields	UE	2						
22	Mechanics I	VL	2	Mechanics II	VL	2	Computer Engineering	VL	3	Electrotechnical Experiments	VL	1									
23	Mechanics I	HÜ	3	Mechanics II	HÜ	2	Computer Engineering	UE	1												
24																					
25										**Mathematics IV**			**Electrical Power Systems I: Introduction to Electrical**								
26										Complex Functions	VL	2									

27	**Programming in C**	**Fundamentals of Mechanical Engineering (GES)**	**Electrical Engineering III: Circuit Theory and Transients**	Complex Functions UE 1	**Power Systems**	
28	Programming in C VL 1 Programming in C PR 1	Fundamentals of Mechanical Engineering VL 2	Circuit Theory VL 3	Complex Functions HÜ 1 Differential Equations 2 VL 2	Electrical Power Systems I: Introduction to Electrical Power Systems VL 3	
29	**Physics for Engineers (GES)**	Fundamentals of Mechanical Engineering UE 2	Circuit Theory UE 2	Differential Equations 2 UE 1		
30	Physics for Engineers VL 2 Physics for Engineers UE 1			Differential Equations 2 HÜ 1	Electrical Power Systems I: Introduction to Electrical Power Systems HÜ 2	
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.