Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w21)

Legend:

Core Qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
Core Qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

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

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	Semester 7		FormHrs/wk
1	**Chemistry**			**Electrical Engineering II: Alternating Current Networks and Basic Devices**			**Technical Thermodynamics II**			**Signals and Systems**			**Introduction to Control Systems**			**Foundations of Management**			**Advanced Internship AIW/ ES**		
2	Chemistry I+II	VL	4	Electrical Engineering II: Alternating Current Networks and Basic Devices	VL	3	Technical Thermodynamics II	VL	2	Signals and Systems	VL	3	Introduction to Control Systems	VL	2	Introduction to Management	VL	3	Advanced Internship AIW/ ES: Preparation	SE	1
3	Chemistry I+II	HÜ	2	Electrical Engineering II: Alternating Current Networks and Basic Devices	GÜ	2	Technical Thermodynamics II	HÜ	1	Signals and Systems	GÜ	2	Introduction to Control Systems	GÜ	2	Management Tutorial	GÜ	2	Advanced Intenship AIW/ ES: Internship-accompanying Seminar	SE	1
4							Technical Thermodynamics II	GÜ	1												
5																					
6																					
7	**Electrical Engineering I: Direct Current Networks and Electromagnetic Fields**			**Fundamentals of Mechanical Engineering Design**			**Mathematics III**			**Theoretical Electrical Engineering I: Time-Independent Fields**			**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	Theoretical Electrical Engineering I: Time-Independent Fields	VL	3	Theoretical Electrical Engineering II: Time-Dependent Fields	VL	3	Electrical Engineering Project Laboratory	PBL	8			
9	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	GÜ	2	Fundamentals of Mechanical Engineering Design	HÜ	2	Analysis III	GÜ	1	Theoretical Electrical Engineering I: Time-Independent Fields	GÜ	2	Theoretical Electrical Engineering II: Time-Dependent Fields	GÜ	2						
10							Analysis III	HÜ	1												
11							Differential Equations 1	VL	2												
12							Differential Equations 1	GÜ	1												
13	**Mathematics I**			**Technical Thermodynamics I**			Differential Equations 1	HÜ	1	**Materials in Electrical Engineering**			**Introduction to Communications and Random Processes**			**Semiconductor Circuit Design**					
14	Linear Algebra I	VL	2	Technical Thermodynamics I	VL	2				Materials in Electrical Engineering	VL	2	Introduction to Communications and Random Processes	VL	3	Semiconductor Circuit Design	VL	3			
15	Linear Algebra I	GÜ	1	Technical Thermodynamics I	HÜ	1	**Engineering Mechanics III (Dynamics)**			Materials in Electrical Engineering	GÜ	2	Introduction to Communications and Random Processes	HÜ	1	Semiconductor Circuit Design	GÜ	1			
16	Linear Algebra I	HÜ	1	Technical Thermodynamics I	GÜ	1	Engineering Mechanics III	VL	3	Electrotechnical Experiments	VL	1	Introduction to Communications and Random Processes	GÜ	1						
17	Analysis I	VL	2				Engineering Mechanics III	GÜ	2												
18	Analysis I	GÜ	1				Engineering Mechanics III	HÜ	1												
19	Analysis I	HÜ	1	**Mechanics II: Mechanics of Materials**						**Mathematics IV**			**Electronic Devices**						**Bachelor Thesis**		
20				Mechanics II	VL	2				Complex Functions	VL	2	Electronic Devices	VL	3						
21	**Mechanics I (Statics)**			Mechanics II	GÜ	2	**Electrical Engineering III: Circuit Theory and Transients**			Complex Functions	GÜ	1	Electronic Devices	PBL	2						
22	Mechanics I	VL	2	Mechanics II	HÜ	2	Circuit Theory	VL	3	Complex Functions	HÜ	1									
23	Mechanics I	GÜ	2				Circuit Theory	GÜ	2	Differential Equations 2	VL	2									
24	Mechanics I	HÜ	1							Differential Equations 2	GÜ	1									
25				**Mathematics II**						Differential Equations 2	HÜ	1									
26				Linear Algebra II	VL	2				**Introduction to Waveguides, Antennas, and Electromagnetic Compatibility**			**Electrical Power Systems I: Introduction to Electrical Power Systems**								
27	**Computer Science for Engineers - Introduction and Overview**			Linear Algebra II	GÜ	1				Introduction to Waveguides, Antennas, and Electromagnetic Compatibility	VL	3	Electrical Power Systems I: Introduction to Electrical Power Systems	VL	3						
28	Computer Science for Engineers - Introduction and Overview	VL	3	Linear Algebra II	HÜ	1	**Computer Engineering**			Introduction to Waveguides, Antennas, and Electromagnetic Compatibility	GÜ	2	Electrical Power Systems I: Introduction to Electrical Power Systems	GÜ	2						
29	Computer Science for Engineers - Introduction and Overview	GÜ	2	Analysis II	VL	2	Computer Engineering	VL	3												
30				Analysis II	HÜ	1	Computer Engineering	GÜ	1												
31				Analysis II	GÜ	1															
32																					

Non-technical 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.