Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w22)

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					Analysis III	GÜ 1								
10	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	GÜ 2	Fundamentals of Mechanical Engineering Design	HÜ 2	Analysis III	HÜ 1	Theoretical Electrical Engineering I: Time-Independent Fields	GÜ 2	Theoretical Electrical Engineering II: Time-Dependent Fields	GÜ 2				
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	Mathematics I	VL 4	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	Mathematics I	HÜ 2	Technical Thermodynamics I	HÜ 1	**Engineering Mechanics III (Dynamics)**		Materials in Electrical Engineering	GÜ 2			Semiconductor Circuit Design	GÜ 1		
16	Mathematics I	GÜ 2	Technical Thermodynamics I	GÜ 1	Engineering Mechanics III	VL 3	Electrotechnical Experiments	VL 1	Introduction to Communications and Random Processes	HÜ 1				
17					Engineering Mechanics III	GÜ 2								
18					Engineering Mechanics III	HÜ 1			Introduction to Communications and Random Processes	GÜ 1				
19			**Mathematics II**				**Mathematics IV**		**Electronic Devices**				**Bachelor Thesis**	
20			Mathematics II	VL 4			Complex Functions	VL 2	Electronic Devices	VL 3				
21	**Computer Science for Engineers - Introduction and Overview**		Mathematics II	HÜ 2	**Electrical Engineering III: Circuit Theory and Transients**		Complex Functions	GÜ 1	Electronic Devices	PBL 2				
22			Mathematics II	GÜ 2			Complex Functions	HÜ 1						
23	Computer Science for Engineers - Introduction and Overview	VL 3			Circuit Theory	VL 3	Differential Equations 2	VL 2						
24	Computer Science for Engineers - Introduction and Overview	GÜ 2			Circuit Theory	GÜ 2	Differential Equations 2	GÜ 1						
25							Differential Equations 2	HÜ 1						
26							**Introduction to Waveguides, Antennas, and Electromagnetic Compatibility**		**Electrical Power Systems I: Introduction to Electrical Power Systems**					
27	**Engineering Mechanics I (Stereostatics)**		**Engineering Mechanics II (Elastostatics)**		**Computer Engineering**		Introduction to Waveguides, Antennas, and Electromagnetic Compatibility	VL 3	Electrical Power Systems I: Introduction to Electrical Power Systems	VL 3				
28	Engineering Mechanics I	VL 2	Engineering Mechanics II	VL 2	Computer Engineering	VL 3	Introduction to Waveguides, Antennas, and Electromagnetic Compatibility	GÜ 2	Electrical Power Systems I: Introduction to Electrical Power Systems	GÜ 2				
29	Engineering Mechanics I	GÜ 2	Engineering Mechanics II	GÜ 2	Computer Engineering	GÜ 1								
30	Engineering Mechanics I	HÜ 1	Engineering Mechanics II	HÜ 2										
31														
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.