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

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**		**Theoretical Electrical Engineering I: Time-Independent Fields**		**Introduction to Control Systems**		**Foundations of Management**		**Advanced Internship AIW/ GES**	
2	Chemistry I	VL 2	Electrical Engineering II: Alternating Current Networks and Basic Devices	VL 3	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	Electrical Engineering II: Alternating Current Networks and Basic Devices	GÜ 2	Technical Thermodynamics II	HÜ 1	Theoretical Electrical Engineering I: Time-Independent Fields	GÜ 2	Introduction to Control Systems	GÜ 2	Management Tutorial	HÜ 2		
4	Chemistry I	HÜ 1			Technical Thermodynamics II	GÜ 1								
5	Chemistry II	HÜ 1												
6														
7	**Electrical Engineering I: Direct Current Networks and Electromagnetic Fields**		**Fundamentals of Mechanical Engineering Design**		**Mathematics III**		**Signals and Systems**		**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	Signals and Systems	VL 3	Theoretical Electrical Engineering II: Time-Dependent Fields	VL 3	Electrical Engineering Project Laboratory	PBL 8		
9					Analysis III	GÜ 1	Signals and Systems	GÜ 2	Theoretical Electrical Engineering II: Time-Dependent Fields	GÜ 2				
10	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	GÜ 2	Fundamentals of Mechanical Engineering Design	HÜ 2	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	**Electrical Engineering IV: Transmission Lines and Research Seminar**		**Introduction to Communications and Random Processes**		**Semiconductor Circuit Design**			
14	Linear Algebra I	VL 2	Technical Thermodynamics I	VL 2			Transmission Line Theory	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	**Mechanics III (Hydrostatics, Kinematics, Kinetics I)**		Research Seminar Electrical Engineering, Computer Science, Mathematics	SE 2			Semiconductor Circuit Design	GÜ 1		
16	Linear Algebra I	HÜ 1	Technical Thermodynamics I	GÜ 1	Mechanics III	VL 3	Transmission Line Theory	HÜ 2	Introduction to Communications and Random Processes	HÜ 1				
17	Analysis I	VL 2			Mechanics III	GÜ 2								
18	Analysis I	GÜ 1			Mechanics III	HÜ 1								
19	Analysis I	HÜ 1	**Mechanics II: Mechanics of Materials**				**Materials in Electrical Engineering**		**Electronic Devices**				**Bachelor Thesis**	
20			Mechanics II	VL 2			Materials in Electrical Engineering	VL 2	Electronic Devices	VL 3				
21	**Mechanics I (Statics)**		Mechanics II	GÜ 2	**Computer Engineering**		Materials in Electrical Engineering	GÜ 2	Electronic Devices	PBL 2				
22	Mechanics I	VL 2	Mechanics II	HÜ 2	Computer Engineering	VL 3	Electrotechnical Experiments	VL 1						
23	Mechanics I	GÜ 2			Computer Engineering	GÜ 1								
24	Mechanics I	HÜ 1												
25			**Mathematics II**				**Mathematics IV**		**Electrical Power Systems I: Introduction to Electrical Power Systems**					
26			Linear Algebra II	VL 2			Complex Functions	VL 2	Electrical Power Systems I: Introduction to Electrical Power Systems	VL 3				
27	**Programming in C**		Linear Algebra II	GÜ 1			Complex Functions	GÜ 1						
28	Programming in C	VL 1	Linear Algebra II	HÜ 1	**Electrical Engineering III: Circuit Theory and Transients**		Complex Functions	HÜ 1	Electrical Power Systems I: Introduction to Electrical Power Systems	HÜ 2				
	Programming in C	PR 1	Analysis II	VL 2	Circuit Theory	VL 3	Differential Equations 2	VL 2						
29	**Physics for Engineers (AIW)**		Analysis II	HÜ 1	Circuit Theory	GÜ 2	Differential Equations 2	GÜ 1						
30	Physics for Engineers	VL 2	Analysis II	GÜ 1			Differential Equations 2	HÜ 1						
31	Physics for Engineers	GÜ 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.