Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w20)

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

#	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**	**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 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: SE 1
3	Chemistry I+II HÜ 2	Current Networks and Basic Devices	Technical Thermodynamics II HÜ 1	Signals and Systems GÜ 2	Introduction to Control Systems GÜ 2	Management Tutorial GÜ 2	Preparation
4		Electrical Engineering II: Alternating GÜ 2	Technical Thermodynamics II GÜ 1				Advanced Intenship AIW/ ES: Internship- SE 1
5		Current Networks and Basic Devices					accompanying Seminar
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 VL 3	Fundamentals of Mechanical Engineering VL 3	Analysis III VL 2	Theoretical Electrical Engineering I: Time- VL 3	Theoretical Electrical Engineering II: VL 3	Electrical Engineering Project Laboratory PBL 8	
9	Networks and Electromagnetic Fields	Design	Analysis III GÜ 1	Independent Fields	Time-Dependent Fields		
10	Electrical Engineering I: Direct Current GÜ 2	Fundamentals of Mechanical Engineering HÜ 2	Analysis III HÜ 1	Theoretical Electrical Engineering I: Time- GÜ 2	Theoretical Electrical Engineering II: GÜ 2		
11	Networks and Electromagnetic Fields	Design	Differential Equations 1 VL 2	Independent Fields	Time-Dependent Fields		
12			Differential Equations 1 GÜ 1				
			Differential Equations 1 HÜ 1				
13	**Mathematics I**	**Technical Thermodynamics I**		**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 VL 3	Semiconductor Circuit Design VL 3	
15	Linear Algebra I GÜ 1	Technical Thermodynamics I HÜ 1	**Mechanics III (Dynamics)**	Materials in Electrical Engineering GÜ 2	Random Processes	Semiconductor Circuit Design GÜ 1	
16	Linear Algebra I HÜ 1	Technical Thermodynamics I GÜ 1	Mechanics III VL 3	Electrotechnical Experiments VL 1	Introduction to Communications and HÜ 1		
17	Analysis I VL 2		Mechanics III GÜ 2		Random Processes		
18	Analysis I GÜ 1		Mechanics III HÜ 1		Introduction to Communications and GÜ 1		
	Analysis I HÜ 1				Random Processes		
19		**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 1		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	**Programming in C**	Linear Algebra II GÜ 1	**Computer Engineering**	Introduction to Waveguides, Antennas, VL 3	Electrical Power Systems I: Introduction VL 3		
28	Programming in C VL 1	Linear Algebra II HÜ 1	Computer Engineering VL 3	and Electromagnetic Compatibility	to Electrical Power Systems		
	Programming in C PR 1	Analysis II VL 2	Computer Engineering GÜ 1	Introduction to Waveguides, Antennas, GÜ 2	Electrical Power Systems I: Introduction GÜ 2		
29	**Physics for Engineers (AIW)**	Analysis II HÜ 1		and Electromagnetic Compatibility	to Electrical Power Systems		
30	Physics for Engineers VL 2	Analysis II GÜ 1					
31	Physics for Engineers 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.