Course of Study Electrical Engineering (Study Cohort w18)

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 X Bachelor Electrical Engineering (ETBS)

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
1	**Procedural Programming**			**Electrical Engineering II: Alternating Current Networks and Basic Devices**			**Electrical Engineering III: Circuit Theory and Transients**			**Theoretical Electrical Engineering I: Time-Independent Fields**			**Theoretical Electrical Engineering II: Time-Dependent Fields**			**Semiconductor Circuit Design**		
2	Procedural Programming	VL	1	Electrical Engineering II: Alternating Current Networks and Basic Devices	VL	3	Circuit Theory	VL	3	Theoretical Electrical Engineering I: Time-Independent Fields	VL	3	Theoretical Electrical Engineering II: Time-Dependent Fields	VL	3	Semiconductor Circuit Design	VL	3
3	Procedural Programming	HÜ	1	Electrical Engineering II: Alternating Current Networks and Basic Devices	GÜ	2	Circuit Theory	GÜ	2	Theoretical Electrical Engineering I: Time-Independent Fields	GÜ	2	Theoretical Electrical Engineering II: Time-Dependent Fields	GÜ	2	Semiconductor Circuit Design	GÜ	1
4	Procedural Programming	PR	2															
5																		
6																		
7	**Physics for Engineers (part 1)**			**Objectoriented Programming, Algorithms and Data Structures**			**Computer Engineering**			**Signals and Systems**			**Introduction to Communications and Random Processes**			**Introduction into Medical Technology and Systems**		
8	Physics for Engineers	VL	2	Objectoriented Programming, Algorithms and Data Structures	VL	4	Computer Engineering	VL	3	Signals and Systems	VL	3	Introduction to Communications and Random Processes	VL	3	Introduction into Medical Technology and Systems	VL	2
9	Physics for Engineers	GÜ	1	Objectoriented Programming, Algorithms and Data Structures	GÜ	1	Computer Engineering	GÜ	1	Signals and Systems	GÜ	2	Introduction to Communications and Random Processes	HÜ	1	Introduction into Medical Technology and Systems	PS	2
10													Introduction to Communications and Random Processes	GÜ	1	Introduction into Medical Technology and Systems	HÜ	1
11	**Electrical Engineering I: Direct Current Networks and Electromagnetic Fields**			**Materials in Electrical Engineering**			**Measurements: Methods and Data Processing**			**Electrical Engineering Project Laboratory**			**Electronic Devices**			**Embedded Systems**		
12	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	VL	3	Materials in Electrical Engineering	VL	2	Measurements: Methods and Data Processing	VL	2	Electrical Engineering Project Laboratory	PBL	8	Electronic Devices	VL	3	Embedded Systems	VL	3
13	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	GÜ	2	Materials in Electrical Engineering	GÜ	2	Measurements: Methods and Data Processing	GÜ	1				Electronic Devices	PBL	2	Embedded Systems	GÜ	1
14				Electrotechnical Experiments	VL	1	EE Experimental Lab	PR	2									
15																		
16																		
17	**Foundations of Management**			**Mathematics II**			**Mathematics III**			**Mathematics IV**			**Introduction to Control Systems**			**Bachelor Thesis**		
18	Introduction to Management	VL	3	Linear Algebra II	VL	2	Analysis III	VL	2	Complex Functions	VL	2	Introduction to Control Systems	VL	2			
19	Management Tutorial	HÜ	2	Linear Algebra II	GÜ	1	Analysis III	GÜ	1	Complex Functions	GÜ	1	Introduction to Control Systems	GÜ	2			
20				Linear Algebra II	HÜ	1	Analysis III	HÜ	1	Complex Functions	HÜ	1						
21				Analysis II	VL	2	Differential Equations 1	VL	2	Differential Equations 2	VL	2						
22				Analysis II	HÜ	1	Differential Equations 1	GÜ	1	Differential Equations 2	GÜ	1						
23	**Mathematics I**			Analysis II	GÜ	1	Differential Equations 1	HÜ	1	Differential Equations 2	HÜ	1						
24	Linear Algebra I	VL	2							**Introduction to Waveguides, Antennas, and Electromagnetic Compatibility**			**Electrical Power Systems I: Introduction to Electrical Power Systems**					
25	Linear Algebra I	GÜ	1	**Physics for Engineers (part 2)**						Introduction to Waveguides, Antennas, and Electromagnetic Compatibility	VL	3	Electrical Power Systems I: Introduction to Electrical Power Systems	VL	3			
26	Linear Algebra I	HÜ	1	Physics-Lab for ET	PR	1				Introduction to Waveguides, Antennas, and Electromagnetic Compatibility	GÜ	2	Electrical Power Systems I: Introduction to Electrical Power Systems	HÜ	2			
27	Analysis I	VL	2															
28	Analysis I	GÜ	1															
29	Analysis I	HÜ	1															
30																		
	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.