Course of Study Electrical Engineering (Study Cohort w14)

Sample course plan X Bachelor Electrical Engineering (ETBS)

Legend:

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

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	UE	1	Electrical Engineering II: Alternating Current Networks and Basic Devices	UE	2	Circuit Theory	UE	2	Theoretical Electrical Engineering I: Time-Independent Fields	UE	2	Theoretical Electrical Engineering II: Time-Dependent Fields	UE	2	Semiconductor Circuit Design	UE	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**			**Engineering Mechanics II**		
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	Engineering Mechanics II	VL	3
9	Physics for Engineers	UE	1	Objectoriented Programming, Algorithms and Data Structures	UE	1	Computer Engineering	UE	1	Signals and Systems	HÜ	1	Introduction to Communications and Random Processes	HÜ	1	Engineering Mechanics II	UE	2
10																		
11	**Electrical Engineering I: Direct Current Networks and Electromagnetic Fields**			**Materials in Electrical Engineering**			**Measurements: Methods and Data Processing**			**Electrical Engineering IV: Transmission Lines and Research Seminar**			**Electronic Devices**			**Electrical Machines**		
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	Transmission Line Theory	VL	2	Electronic Devices	VL	3	Electrical Machines	VL	3
13	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	UE	2	Materials in Electrical Engineering	UE	2	Measurements: Methods and Data Processing	UE	1	Research Seminar Electrical Engineering, Computer Science, Mathematics	SE	2	Electronic Devices	POL	2	Electrical Machines	HÜ	2
14				Electrotechnical Experiments	VL	1	EE Experimental Lab	PR	2	Transmission Line Theory	HÜ	2						
15																		
16																		
17	**Foundations of Management**			**Mathematics II**			**Mathematics III**			**Electrical Engineering Project Laboratory**			**Introduction to Control Systems**			**Bachelor Thesis**		
18	Introduction to Management	VL	4	Linear Algebra II	VL	2	Analysis III	VL	2	Electrical Engineering Project Laboratory	PR	5	Introduction to Control Systems	VL	2			
19	Project Entrepreneurship	POL	2	Linear Algebra II	UE	1	Analysis III	UE	1				Introduction to Control Systems	UE	2			
20				Linear Algebra II	HÜ	1	Analysis III	HÜ	1									
21				Analysis II	VL	2	Differential Equations 1	VL	2									
22				Analysis II	HÜ	1	Differential Equations 1	UE	1									
23	**Mathematics I**			Analysis II	UE	1	Differential Equations 1	HÜ	1	**Mathematics IV**			**Engineering Mechanics I**					
24	Linear Algebra I	VL	2							Complex Functions	VL	2	Engineering Mechanics I	VL	3			
25	Linear Algebra I	UE	1							Complex Functions	UE	1	Engineering Mechanics I	UE	2			
26	Linear Algebra I	HÜ	1							Complex Functions	HÜ	1						
27	Analysis I	VL	2							Differential Equations 2	VL	2						
28	Analysis I	UE	1							Differential Equations 2	UE	1						
29	Analysis I	HÜ	1	**Physics for Engineers (part 2)**						Differential Equations 2	HÜ	1						
30				Physics-Lab for ET/IIW-Engineers	PR	1												
	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.