

Course of Study Electrical Engineering (Study Cohort w21)

Legend:

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

Sample course plan X Bachelor Electrical Engineering (ETBS)	Form Hrs/wk	Semester 3	Form Hrs/wk	Semester 4	Form Hrs/wk	Semester 5	Form Hrs/wk	Semester 6	Form Hrs/wk
1	Physics for Engineers (part 1)	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	Physics for Engineers VL 2	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	Physics for Engineers GÜ 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									
5	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	Materials in Electrical Engineering	Computer Engineering	Signals and Systems	Introduction to Communications and Random Processes	Introduction into Medical Technology and Systems			
6	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields VL 3	Materials in Electrical Engineering VL 2	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			
7	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields GÜ 2	Materials in Electrical Engineering GÜ 2	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			
8		Electrotechnical Experiments VL 1			Introduction to Communications and Random Processes GÜ 1	Introduction into Medical Technology and Systems HÜ 1			
9									
10									
11	Foundations of Management	Mathematics II	Measurements: Methods and Data Processing	Electrical Engineering Project Laboratory	Electronic Devices	Embedded Systems			
12	Introduction to Management VL 3	Linear Algebra II VL 2	Measurements: Methods and Data Processing VL 2	Electrical Engineering Project Laboratory PBL 8	Electronic Devices VL 3	Embedded Systems VL 3			
13	Management Tutorial GÜ 2	Linear Algebra II GÜ 1	Measurements: Methods and Data Processing GÜ 1		Electronic Devices PBL 2	Embedded Systems GÜ 1			
14		Linear Algebra II HÜ 1	EE Experimental Lab PR 2						
15		Analysis II VL 2							
16		Analysis II HÜ 1							
17	Mathematics I	Analysis II GÜ 1	Mathematics III	Mathematics IV	Introduction to Control Systems	Bachelor Thesis			
18	Linear Algebra I VL 2		Analysis III VL 2	Complex Functions VL 2	Introduction to Control Systems VL 2				
19	Linear Algebra I GÜ 1		Analysis III GÜ 1	Complex Functions GÜ 1	Introduction to Control Systems GÜ 2				
20	Linear Algebra I HÜ 1		Analysis III HÜ 1	Complex Functions HÜ 1					
21	Analysis I VL 2	Computer Science for Engineers - Programming Concepts, Data Handling & Communication	Differential Equations 1 VL 2	Differential Equations 2 VL 2					
22	Analysis I GÜ 1	Computer Science for Engineers - Programming Concepts, Data Handling & Communication VL 3	Differential Equations 1 GÜ 1	Differential Equations 2 GÜ 1					
23	Analysis I HÜ 1	Computer Science for Engineers - Programming Concepts, Data Handling & Communication GÜ 2	Differential Equations 1 HÜ 1	Differential Equations 2 HÜ 1					
24									
25	Computer Science for Engineers - Introduction and Overview	Physics for Engineers (part 2)		Introduction to Waveguides, Antennas, and Electromagnetic Compatibility	Electrical Power Systems I: Introduction to Electrical Power Systems				
26	Computer Science for Engineers - Introduction and Overview VL 3	Physics-Lab for ET PR 1		Introduction to Waveguides, Antennas, and Electromagnetic Compatibility VL 3	Electrical Power Systems I: Introduction to Electrical Power Systems VL 3				
27	Computer Science for Engineers - Introduction and Overview GÜ 2			Introduction to Waveguides, Antennas, and Electromagnetic Compatibility GÜ 2	Electrical Power Systems I: Introduction to Electrical Power Systems GÜ 2				
28									
29									
30									

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.

