

Course of Study Electrical Engineering (Study Cohort w22)

Legend:

Core Qualification Elective Compulsory	Specialisation Elective 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) Dual study program

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		Mathematics II VL 4	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		Mathematics II HÜ 2	Measurements: Methods and Data Processing GÜ 1		Electronic Devices PBL 2	Embedded Systems GÜ 1
14			Mathematics II GÜ 2	EE Experimental Lab PR 2			Embedded Systems PBL 1
15							
16							
17	Mathematics I			Mathematics III	Mathematics IV	Introduction to Control Systems	Bachelor thesis (dual study program)
18	Mathematics I VL 4			Analysis III VL 2	Complex Functions VL 2	Introduction to Control Systems VL 2	
19	Mathematics I HÜ 2			Analysis III GÜ 1	Complex Functions GÜ 1	Introduction to Control Systems GÜ 2	
20	Mathematics I GÜ 2			Analysis III HÜ 1	Complex Functions HÜ 1		
21				Differential Equations 1 VL 2	Differential Equations 2 VL 2		
22				Differential Equations 1 GÜ 1	Differential Equations 2 GÜ 1		
23				Differential Equations 1 HÜ 1	Differential Equations 2 HÜ 1		
24							
25	Computer Science for Engineers - Introduction and Overview		Computer Science for Engineers - Programming Concepts, Data Handling & Communication		Practical module 4 (dual study program, Bachelor's degree)	Practical module 5 (dual study program, Bachelor's degree)	
26	Computer Science for Engineers - Introduction and Overview VL 3		Computer Science for Engineers - Programming Concepts, Data Handling & Communication VL 3		Practical term 4 0	Practical term 5 0	
27	Computer Science for Engineers - Introduction and Overview GÜ 2		Computer Science for Engineers - Programming Concepts, Data Handling & Communication GÜ 2				
28							
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31	Practical module 1 (dual study program, Bachelor's degree)			Practical module 3 (dual study program, Bachelor's degree)			
32	Practical term 1 0			Practical term 3 0			
33							
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35							
36							

Linking theory and practice (dual study program, Bachelor's degree) - 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.

