Course of Study Electrical Engineering (Study Cohort w22)

Sample course plan E Master Electrical Engineering (ETMS) Dual study program

Specialisation Control and Power Systems Engineering

Legend			
Core Qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
Core Qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

LP			
1	**Digital Communications**	**Practical module 2 (dual study program, Master's degree)**	**Practical module 3 (dual study program, Master's degree)**	**Master thesis (dual study program)**
2	Digital Communications VL 2	Practical term 2 0	Practical term 3 0	
3	Digital Communications HÜ 2			
4	Laboratory Digital Communications PR 1			
5				
6				
7	**Microwave Engineering**			
8	Microwave Engineering VL 2			
9	Microwave Engineering HÜ 2			
10	Microwave Engineering PR 1			
11		**Numerical Methods for Ordinary Differential Equations**	**Research Project and Seminar in Control and Power Systems Engineering**	
12		Numerical Treatment of Ordinary Differential Equations VL 2		
13	**Microsystem Engineering**	Numerical Treatment of Ordinary Differential Equations GÜ 2		
14	Microsystem Engineering VL 2			
15	Microsystem Engineering PBL 2			
16				
17		**Optimal and Robust Control**		
18		Optimal and Robust Control VL 2		
19	**Control Systems Theory and Design**	Optimal and Robust Control GÜ 2		
20	Control Systems Theory and Design VL 2			
21	Control Systems Theory and Design GÜ 2			
22				
23		**Electrical Power Systems III: Dynamics and Stability of Electrical Power Systems**	**Industrial Process Automation**	
24		Electrical Power Systems III: Dynamics and Stability of Electrical Power Systems VL 3	Industrial Process Automation VL 2	
25	**Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids**	Electrical Power Systems III: Dynamics and Stability of Electrical Power Systems HÜ 2	Industrial Process Automation GÜ 2	
26	Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids VL 3			
27				
28	Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids HÜ 2			
29				
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31	**Practical module 1 (dual study program, Master's degree)**			
32	Practical term 1 0			
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Business & Management (from catalogue) - 6LP

Linking theory and practice (dual study program, Master's degree) (from catalogue) - 6LP

Technical Complementary Course for ETMS (according to Subject Specific Regulations) - 12LP

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.