Course of Study Electrical Engineering (Study Cohort w20)

Sample course plan A Master Electrical Engineering (ETMS)

Specialisation Microwave Engineering, Optics, and Electromagnetic Compatibility

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**			**Microwave Semiconductor Devices and Circuits I**			**Research Project and Seminar in Microwave Engineering, Optics and Electromagnetic Compatibility**	**Master Thesis**
2	Digital Communications	VL	2	Microwave Semiconductor Devices and Circuits I	VL	3		
3	Digital Communications	HÜ	2	Microwave Semiconductor Devices and Circuits I	HÜ	2		
4	Laboratory Digital Communications	PR	1					
5								
6								
7	**Microwave Engineering**			**EMC I: Coupling Mechanisms, Countermeasures and Test Procedures**				
8	Microwave Engineering	VL	2	EMC I: Coupling Mechanisms, Countermeasures, and Test Procedures	VL	3		
9	Microwave Engineering	HÜ	2	EMC I: Coupling Mechanisms, Countermeasures, and Test Procedures	GÜ	1		
10	Microwave Engineering	PR	1	EMC I: Coupling Mechanisms, Countermeasures, and Test Procedures	PR	1		
11								
12								
13	**Microsystem Engineering**						**Bioelectromagnetics: Principles and Applications**	
14	Microsystem Engineering	VL	2				Bioelectromagnetics: Principles and Applications	VL	3	
15	Microsystem Engineering	PBL	2				Bioelectromagnetics: Principles and Applications	GÜ	2	
16								
17								
18								
19	**Control Systems Theory and Design**						**Microwave Semiconductor Devices and Circuits II**	
20	Control Systems Theory and Design	VL	2				Microwave Semiconductor Devices and Circuits II	VL	1	
21	Control Systems Theory and Design	GÜ	2				Microwave Semiconductor Devices and Circuits II	HÜ	1	
22							Microwave Circuit Design Laboratory	PR	4	
23								
24								
25	**Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids**							
26								
27	Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids	VL	2					
28	Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids	HÜ	2					
29								
30								

Business & Management (from catalogue) - 6LP

Non-technical Courses for Master (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.