

Course of Study Electrical Engineering (Study Cohort w14)

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	Semester 1	Form	Hrs/wk	Semester 2	Form	Hrs/wk	Semester 3	Form	Hrs/wk	Semester 4	Form	Hrs/wk		
1	Digital Communications			Technical Complementary Course I			Technical Complementary Course II for ETMS (according to Subject Specific Regulations)			Master Thesis				
2		Digital Communications	VL		2									
3		Digital Communications	HÜ		1									
4		Laboratory Digital Communications	PR		1									
5														
6														
7	Microwave Engineering			Microwave Semiconductor Devices and Circuits I			Optoelectronics II - Quantum Optics							
8		Microwave Engineering	VL		2	Microwave Semiconductor Devices and Circuits I		VL	3		Optoelectronics II: Quantum Optics	VL	2	
9		Microwave Engineering	HÜ		2			Optoelectronics II: Quantum Optics	UE		1			
10		Microwave Engineering	PR		1	Microwave Semiconductor Devices and Circuits I	HÜ	2	Seminar on Electromagnetic Fields and Electromagnetic Compatibility					
11														
12								Seminar on Electromagnetic Fields and Electromagnetic Compatibility	SE		2			
13	Microsystem Engineering			Introduction to Antenna Theory			Microwave Semiconductor Devices and Circuits II							
14		Microsystem Engineering	VL		2	Introduction To Antenna Theory		VL	2		Microwave Semiconductor Devices and Circuits II	VL	1	
15		Microsystem Engineering	UE		1	Introduction To Antenna Theory	HÜ	1						
16		Microsystem Engineering	PBL		1	Introduction To Antenna Theory	PR	1	Microwave Semiconductor Devices and Circuits II		HÜ	1		
17									Microwave Circuit Design Laboratory		PR	4		
18														
19	Control Systems Theory and Design			Electromagnetic Waves			Research Project in Microwave Engineering, Optics and Electromagnetic Compatibility							
20		Control Systems Theory and Design	VL		2	Electromagnetic Waves		VL	2					
21		Control Systems Theory and Design	UE		2	Electromagnetic Waves		HÜ	1					
22						Electromagnetic Waves		PR	1					
23														
24														
25	CMOS Nanoelectronics with Practice													
26		CMOS Nanoelectronics	VL		2									
27		CMOS Nanoelectronics	UE		1									
28		CMOS Nanoelectronics	PR		2									
29														
30														
Business & Management (from catalogue) - 6LP														
Nontechnical Elective Complementary Courses for Master (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.

