

V

Field of specialization 17: Information and Communication

Exemplary curriculum:¹⁴

	WS		SS	
	SWS	LP	SWS	LP
Basic Modules of Specialization (BMS)				
Optical Networks and Systems	2+1	4		
Radio-Frequency Electronics (from WiSe 25/26: 6 LP)	2+1+1	5		
Communications Engineering II (from WiSe 25/26: 6 LP)	2+1	4		
or Nachrichtentechnik II (last time SoSe 24)			2+1	4
Compulsory Modules of Specialization (CMS)				
Radio Frequency Integrated Circuits and Systems			2+2	6
Mikrowellentechnik (D, WS) / Microwave Engineering (E, SS)	2+1	5	2+1	5
Communication Systems and Protocols			2+1	5
Systems and Software Engineering	2+1	5		
Machine Learning and Optimization in Communications			2+1	4
Modern Radio Systems Engineering			2+1	4
Digital Signal Processing in Optical Communications – with Practical Exercises			2+2	6
Praktikum Mikrowellentechnik	0+4	6	0+4	6
or MMIC Design Laboratory	0+4	6	0+4	6
or Photonics and Communications Lab			4	6
or Praktikum Nachrichtentechnik	4	6	4	6
Sum (BMS+CMS)		29		25

	WS		SS	
	SWS	LP	SWS	LP
Elective Modules of Specialization (EMS)				
Recommended electives, see next page				
...				
Sum (see below)				

	WS		SS	
	SWS	LP	SWS	LP
Interdisciplinary Qualifications				
see Module M-ETIT-105803				
...				
Sum (in total 6 LP)			6 LP	

	LP
Master's Thesis	
Master's Thesis	30

	LP
Summary	
Basic Modules of Specialization (BMS)	13
Compulsory Modules of Specialization (CMS)	41
Elective Modules of Specialization (EMS)	30
Interdisciplinary Qualifications	6
Master's Thesis	30
Sum	120

Gray backgrounds are used to illustrate credit point (LP) summation in winter term (WS) and summer term (SS).

¹⁴ If modules are listed in both semesters, only one must be selected. (D) means the lecture is in German, (E) – in English.