V Field of specialization 17: Information and Communication

Exemplary curriculum:[14]

	WS		SS	
Basic Modules of Specialization (BMS)	**SWS**	**LP**	**SWS**	**LP**
Communication Systems and Protocols			2+1	5
Systems and Software Engineering	2+2	6		
Machine Learning and Optimization in Communications			2+1	4
Compulsory Modules of Specialization (CMS)				
Radio Frequency Integrated Circuits and Systems			2+2	6
Radio-Frequency Electronics	3+1	6	3+1	6
Advanced Communications Engineering	3+1	6		
Optical Networks and Systems	3+1	6		
Modern Radio Systems Engineering	3+1	6	3+1	6
Digital Signal Processing in Optical Communications – with Practical Exercises			2+2	6
Microwave Engineering Lab	0+4	6	0+4	6
or MMIC Design Laboratory	0+4	6	0+4	6
or Photonics and Communications Lab			4	6
or Communications Engineering Lab	4	6	4	6
Sum (BMS+CMS)		**30**		**27**

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

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

Master's Thesis		**LP**
Master's Thesis		30

Summary		**LP**
Basic Modules of Specialization (BMS)		15
Compulsory Modules of Specialization (CMS)		42
Elective Modules of Specialization (EMS)		29
Interdisciplinary Qualifications		6
Master's Thesis		30
Sum		**120**

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