



Field of specialization 12: Photonics

Exemplary curriculum:⁹

	WS		SS	
	SWS	LP	SWS	LP
Basic Modules of Specialization (BMS)				
Advanced Communications Engineering	3+1	6		
Electromagnetics and Numerical Calculation of Fields	2+1	4		
Optical Waveguides and Fibers	2+1	4		
Compulsory Modules of Specialization (CMS)				
Radio-Frequency Electronics	3+1	6	3+1	6
Optical Networks and Systems	3+1	6		
Photonic Integrated Circuit Design and Applications			2+2	6
Digital Signal Processing in Optical Communications – with Practical Exercises			2+2	6
Nonlinear Optics			2+2	6
Optical Transmitters and Receivers	2+2	6		
Photonics and Communications Lab			4	6
Sum (BMS+CMS)		32		24

	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)				

	LP
Master's Thesis	
Master's Thesis	30

	LP
Summary	
Basic Modules of Specialization (BMS)	14
Compulsory Modules of Specialization (CMS)	42
Elective Modules of Specialization (EMS)	28
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).

⁹ If modules are listed in both semesters, only one must be selected. (D) means the lecture is in German, (E) – in English.