

V

Field of specialization 12: Photonics

Exemplary curriculum:⁹

	WS		SS	
	SWS	LP	SWS	LP
Basic Modules of Specialization (BMS)				
Nachrichtentechnik II (SS) / Communications Engineering II (WS)	2+1	4	2+1	4
Radio-Frequency Electronics	2+1+1	5		
Optical Networks and Systems	2+1	4		
Compulsory Modules of Specialization (CMS)				
Electromagnetics and Numerical Calculation of Fields	2+1	4		
Communication Systems and Protocols			2+1	5
Mikrowellentechnik (WS) / Microwave Engineering (SS)	2+1	5	2+1	5
Digital Signal Processing in Optical Communications			2+2	6
Optical Waveguides and Fibers	2+1	4		
Nonlinear Optics			2+2	6
Optical Transmitters and Receivers	2+2	6		
Photonics and Communications Lab			4	6
Sum (BMS+CMS)		27		28

	WS		SS	
	SWS	LP	SWS	LP
Elective Modules of Specialization (EMS)				
Recommended electives, see next page				
...				
Sum (in total 29 LP)			29 LP	

	WS		SS	
	SWS	LP	SWS	LP
Interdisciplinary Qualifications				
Module 1				
...				
Sum (in total 6 LP)				

Master Thesis		LP
Master Thesis		30

Summary		LP
Basic Modules of Specialization (BMS)		13
Compulsory Modules of Specialization (CMS)		42
Elective Modules of Specialization (EMS)		29
Interdisciplinary Qualifications		6
Master 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.