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Field of specialization 12: Photonics

Below you find a list of recommended elective modules from the immediate environment of the specialization. If you would like to broaden your knowledge further, other modules than those can be chosen as well in consultation with the program consultants. In this respect, it is strongly recommended to consult the program consultant already at the beginning of the Master's program in order to discuss your individual study plan.

Recommended elective modules:

Recommended elective modules for the specialization	WS		SS	
	SWS	LP	SWS	LP
Adaptive Optics	2	3		
Angewandte Informationstheorie	3+1	6		
Antennen und Mehrantennensysteme	2+2	6		
Channel Coding Graph-Based Codes	3+1	6		
Design analoger Schaltkreise	2	4		
Design Digitaler Schaltkreise			2+1	4
Digitale Strahlenformung für bildgebendes Radar	2+1	4		
Einführung in die Quantentheorie für Elektrotechniker	2	3		
Field Propagation and Coherence	2+1	4		
Funkempfänger	2	3		
Hardware Modelling and Simulation	2+1	4		
Introduction to Microsystem Technology I	2+2	4		
Laserphysics	2+1	4		
Machine Learning and Optimization in Communications			2+1	4
Methoden der Signalverarbeitung	2+1+1	6		
MMIC Design Lab	4	6		
Modern Radio Systems Engineering			2+1	4
Optical Engineering	2+1	4		
Optical Systems in Medicine and Life Science	2	3		
Optoelektronik	2+1	4		
Optoelektronische Messtechnik			2	3
Physics, Technology and Applications of nano Films	2+1	4		
Prädiktive Fahrerassistenzsysteme	2	3		
Praktikum Entwurf digitaler Systeme/ Digital Hardware Design Labo-			4	6
Praktikum Mikrowellentechnik	4	6	4	6
Quantentechnologische Detektoren und Sensoren	2	3		
Radar Systems Engineering	3+1	6		
Radio Frequency Integrated Circuits and Systems			2+2	6
Regelung linearer Mehrgrößensysteme	3+1	6		
Satellite Communications			2	3
Semiconductor Process Technologies			2	4
Signalverarbeitung in der Nachrichtentechnik			2+1	4
Single-Photon Detectors	2+1	4		
Spaceborne Radar Remote Sensing			3+1	6
Technische Optik	2+1	5		
Verfahren zur Kanalcodierung			2	3