

V Vertiefungsrichtung 17: Information and Communication

Below you find a list of recommended elective modules for the specialization. Other modules than those can be chosen as well in consultation with the program consultants or the responsible professors. In this respect, it is strongly recommended to consult one of the aforementioned persons already at the beginning of the Master's program in order to discuss the study plan.

Recommended elective modules:¹

Recommended elective modules for specialization	WS		SS	
	SWS	LP	SWS	LP
Channel Coding: Graph-Based Codes	3+1	6		
Channel Coding: Algebraic Methods for Communications and Storage			2+0	3
Seminar Ausgewählte Kapitel der Nachrichtentechnik	3	4	3	4
Signalverarbeitung in der Nachrichtentechnik			2+1	4
Angewandte Informationstheorie	3+1	6		
Quellencodierung			2+0	3
Satellite Communications			2+0	3
Electromagnetics and Numerical Calculation of Fields	2+1	4		
Radar Systems Engineering	3+1	6		
Antennen und Mehrantennensysteme	2+2	5		
Mikrowellenmesstechnik			2+1	4
Spaceborne Radar Remote Sensing			2+1+1	6
Optical Waveguides and Fibers	2+1	4		
Field Propagation and Coherence	2+1	4		
Optoelectronic Components	2+1	4		
Funkempfänger	2+0	3		
Space-borne Microwave Radiometry – Advanced Methods and Applications			2+0	3
Hardware Modeling and Simulation	2+1	4		
Seminar Radar and Communication Systems	3	4	3	4
MMIC Design Lab	0+4	6	0+4	6
Digitale Strahlenformung für bildgebendes Radar	2+1	4		
Methoden der Signalverarbeitung	2+1+1	6		
Informationsfusion	2+1	4		
Optimization of Dynamic Systems	2+1	5		
Regelung linearer Mehrgrößensysteme	3+1	6		
Optical Transmitters and Receivers	2+2	6		
Technische Akustik	2+0	3		
Photonics and Communications Lab			0+4	6
Praktikum Nachrichtentechnik	0+4	6	0+4	6
Praktikum Mikrowellentechnik	0+4	6	0+4	6
Praktikum Schaltungsdesign mit FPGA	0+4	6	0+4	6

¹ Modules listed in both semesters can only be opted once.