

Äquivalenzliste für PO-Wechsel MSc iCE (2014 > 2023)

Stand 07.03.2023

Module nach PO 2014			CP	Module nach PO 2023					Bemerkungen: Die Zuordnungen erfolgen in den meisten Fällen laut individuellem Studienplan
1. Mandatory			33	M.Nr.	Core Competencies	CP	Delta (neu-alt)	in Bereich	
18-ho-2010	Advanced Digital Integrated Circuit Design (V3 + Ü1)	o	6	18-ho-2010	Advanced Digital Integrated Circuit Design (V3 + Ü1)	6	0	1. Core Competencies oder 2.1.1. Hardware oder 3. Optional supplements	
18-zo-2060	Digital Signal Processing (V3 + Ü1)	o	6	18-zo-2060	Digital Signal Processing (V3 + Ü1)	6	0	1. Core Competencies oder 2.2.1. Systems oder 2.3.1. Algorithms oder 3. Optional supplements	
18-dg-2150	Technical Electrodynamics for iCE (VL2+Ü2)	o	5	18-dg-2150	Technical Electrodynamics for iCE (VL2+Ü2)	5	0	1. Core Competencies oder 2.1.1. Hardware oder 3. Optional supplements	
18-pr-1050	Optical Communications – Components (V3 + Ü1) (formerly 18-ku-1060)	o	6	18-pr-1050	Optical Communications – Components (V3 + Ü1) (formerly 18-ku-1060)	6	0	1. Core Competencies oder 2.1.1. Hardware oder 3. Optional supplements	Gilt auch für das alte Modul 18-ku-1060
18-kl-2010	Communication Technology II (V2 + Ü1)	o	4	18-kl-2010	Communication Technology II (V2 + Ü1)	5	1	1. Core Competencies oder 2.2.1. Systems oder 3. Optional supplements	Creditzahl auf 5 CP erhöhen
18-sm-2010	Communication Networks II (V3 + Ü1)	o	6	18-sm-2010	Communication Networks II (V3 + Ü1)	6	0	1. Core Competencies oder 2.3.1. Algorithms oder 3. Optional supplements	
X	X			18-jk-2020	Antennas and Adaptive Beamforming	6	0	1. Core Competencies oder 2.1.1. Hardware oder 2.2.1. Systems oder 3. Optional supplements	
X	X			18-pe-2020	Convex Optimization in Signal Processing and Communications	6	0	1. Core Competencies oder 2.2.1. Systems oder 2.3.1. Algorithms oder 3. Optional supplements	
X	X			18-kp-2110	Data-driven Modeling - Machine Learning	6	0	1. Core Competencies oder 2.2.1. Systems oder 2.3.1. Algorithms oder 3. Optional supplements	
X	X			18-pe-2070	Matrix Analysis and Computations	6	0	1. Core Competencies oder 2.2.1. Systems oder 2.3.1. Algorithms oder 3. Optional supplements	
X	X			18-kl-2020	Mobile Communications	6	0	1. Core Competencies oder 2.2.1. Systemes oder 2.3.1. Algorithms oder 3. Optional supplements	
2. Optional Fundamentals									
18-jk-2020	Antennas and Adaptive Beamforming (V3 + Ü1)	f	6	18-jk-2020	Antennas and Adaptive Beamforming (V3 + Ü1)	6	0	1. Core Competencies oder 2.1.1. Hardware oder 2.2.1. Systems oder 3. Optional supplements	
18-kl-2020	Mobile Communications (V3 + Ü1)	f	6	18-kl-2020	Mobile Communications (V3 + Ü1)	6	0	1. Core Competencies oder 2.2.1. Systemes oder 2.3.1. Algorithms oder 3. Optional supplements	
18-pe-2010	Information Theory II (V3 + Ü1)	f	6	18-pe-2010	Information Theory II (V3 + Ü1)	6	0	2.2.1. Systems oder 2.3.1. Algorithms oder 3. Optional supplements	
20-00-0748	Mobile Networking (iV4)	f	6	20-00-0748	Mobile Networking (iV4)	6	0	2.2.1. Systems oder 3. Optional supplements	

Module nach PO 2014			CP	Module nach PO 2023				
18-ho-2190	Circuit Building Blocks for Communication Systems (V2 + Ü1) ^{***}	f	4	18-ho-2190	Circuit Building Blocks for Communication Systems (V2 + Ü1) ^{***}	4	0	2.1.1. Hardware oder 3. Optional supplements
3. Optionals				Optionals and Optional supplements				
3.1 Device Technology and Circuit Design								
18-bf-2030	Applied Superconductivity (V2)	f	3	18-bf-2030	Applied Superconductivity (V2)	3	0	upon request
18-kn-1050	Electromechanical Systems I (V2 + Ü2) (formerly: 18-wy-1020)	f	5	18-kn-1050	Electromechanical Systems I (V2 + Ü2) (formerly: 18-wy-1020)	5	0	2.1.1. Hardware oder 3. Optional supplements
18-ho-2210	Industrial Electronics (V2 + Ü1)	f	4	18-ho-2210	Industrial Electronics (V2 + Ü1)	4	0	2.1.1. Hardware oder 3. Optional supplements
18-jk-2090	Microwave Measurement Technologies (V2 + Ü1 + Pr1)	f	6	18-jk-2090	Microwave Measurement Technologies (V2 + Ü1 + Pr1)	6	0	2.1.1. Hardware oder 2.2.1 Systems oder 3. Optional supplements
16-17-5110	Printed Electronics (V2)	f	4	16-17-5110	Printed Electronics (V2)	4	0	2.1.1. Hardware oder 3. Optional supplements
18-bu-1010	Technology of Micro- and Precision Engineering (V2 + Ü1) (formerly: 18-sl-1010)	f	4	18-bu-1010	Technology of Micro- and Precision Engineering (V2 + Ü1) (formerly: 18-sl-1010)	4	0	2.1.1. Hardware oder 3. Optional supplements
18-jk-2060	Project Seminar Advanced μ Wave Components & Antennas (Pj4)	f	8	18-jk-2060	Project Seminar Advanced μ Wave Components & Antennas (Pj4)	8	0	2.1.2. Hardware oder 3. Optional supplements
18-ho-2130	Project Seminar Design for Testability (Pj3)	f	6	18-ho-2130	Project Seminar Design for Testability (Pj3)	6	0	2.1.2. Hardware oder 3. Optional supplements
18-ho-2160	Seminar: Integrated Electronic Systems Design A (S2)	f	4	18-ho-2160	Seminar: Integrated Electronic Systems Design A (S2)	4	0	2.1.2. Hardware oder 3. Optional supplements
18-ho-2161	Seminar: Integrated Electronic Systems Design B (S3)	f	6	18-ho-2161	Seminar: Integrated Electronic Systems Design B (S3)	6	0	2.1.2. Hardware oder 3. Optional supplements
18-ho-2120	Advanced Integrated Circuit Design Lab (Pr3)	f	6	18-ho-2120	Advanced Integrated Circuit Design Lab (Pr3)	6	0	2.1.2. Hardware oder 3. Optional supplements
18-me-2020	Introduction to Spintronics (V3 + Ü1)	f	6	18-me-2020	Introduction to Spintronics (V3 + Ü1)	6	0	2.1.1. Hardware oder 3. Optional supplements
18-me-2030	Project seminar Spintronic Devices (Pj3)	f	6	18-me-2030	Project seminar Spintronic Devices (Pj3)	6	0	2.1.2. Hardware oder 3. Optional supplements
18-bu-2020	Technology of Microsystems Technology (V2 + Ü1) (formerly: 18-sl-2010) ^{***}	f	4	18-bu-2020	Technology of Microsystems Technology (V2 + Ü1) (formerly: 18-sl-2010) ^{**}	4	0	2.1.1. Hardware oder 3. Optional supplements
18-ho-1100	Seminar Circuit Design for Printable Electronics (S3) ^{***}	f	4	18-ho-1100	Seminar Circuit Design for Printable Electronics (S3) ^{**}	4	0	2.1.2. Hardware oder 3. Optional supplements

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18-ho-2190	Circuit Building Blocks for Communication Systems (V2 + Ü1) **	f	4	18-ho-2190	Circuit Building Blocks for Communication Systems (V2 + Ü1) **	4	0	2.1.1. Hardware oder 3. Optional supplements
18-ku-2210	Technology of Electronic and Optoelectronic Devices (V2) **	f	3	18-ku-2210	Technology of Electronic and Optoelectronic Devices (V2) **	3	0	2.1.1. Hardware oder 3. Optional supplements
3.2 Electronic System Design								
18-ho-2200	Computer Aided Design for SoCs (V2 + Ü1 + Pr1)	f	5	18-ho-2200	Computer Aided Design for SoCs (V2 + Ü1 + Pr1)	5	0	2.1.1. Hardware oder 3. Optional supplements
18-hb-2030	Computer Systems II (V3 + Ü1)	f	6	18-hb-2030	Computer Systems II (V3 + Ü1)	6	0	2.1.1. Hardware oder 3. Optional supplements
18-su-2020	Real-Time Systems (V3 + Ü1)	f	6	18-su-2020	Real-Time Systems (V3 + Ü1)	6	0	2.1.1. Hardware oder 3. Optional supplements
18-hb-2010	Low-Level Synthesis (V3 + Ü1)	f	6	18-hb-2010	Low-Level Synthesis (V3 + Ü1)	6	0	2.1.1. Hardware oder 3. Optional supplements
18-hb-2020	High-Level Synthesis (V3 + Ü1)	f	6	18-hb-2020	High-Level Synthesis (V3 + Ü1)	6	0	2.1.1. Hardware oder 3. Optional supplements
18-ho-2040	Microprocessor Systems (V2 + Ü1)	f	4	18-ho-2040	Microprocessor Systems (V2 + Ü1)	4	0	2.1.1. Hardware oder 3. Optional supplements
18-hb-2040	Projektseminar Reconfigurable Systems (Pj3)	f	6	18-hb-2040	Projektseminar Reconfigurable Systems (Pj3)	6	0	2.1.2. Hardware oder 3. Optional supplements
18-ho-2130	Project Seminar Design for Testability (Pj3)	f	6	18-ho-2130	Project Seminar Design for Testability (Pj3)	6	0	2.1.2. Hardware oder 3. Optional supplements
18-ho-2160	Seminar Integrated Electronic Systems Design A (S2)	f	4	18-ho-2160	Seminar Integrated Electronic Systems Design A (S2)	4	0	2.1.2. Hardware oder 3. Optional supplements
18-ho-2161	Seminar: Integrated Electronic Systems Design B (S3)	f	6	18-ho-2161	Seminar: Integrated Electronic Systems Design B (S3)	6	0	2.1.2. Hardware oder 3. Optional supplements
18-su-2080	Seminar Software System Technology (S2)	f	4	18-su-2080	Seminar Software System Technology (S2)	4	0	2.1.2. Hardware oder 3. Optional supplements
18-ho-1090	HDL Lab (Pr3)	f	6	18-ho-1090	HDL Lab (Pr3)	6	0	2.1.2. Hardware oder 3. Optional supplements
20-00-0968	Embedded Systems Hands-On 2: Entwurf von Hardware-Beschleunigern für Systems-on-Chip (Pr4)	f	6	20-00-0968	Embedded Systems Hands-On 2: Entwurf von Hardware-Beschleunigern für Systems-on-Chip (Pr4)	6	0	2.1.2. Hardware oder 3. Optional supplements
20-00-1001	Advanced Topics in Embedded Systems and Applications (PP6)	f	9	20-00-1001	Advanced Topics in Embedded Systems and Applications (PP6)	9	0	2.1.2. Hardware oder 3. Optional supplements
18-sc-2010	Modellbildung und Simulation von elektrischen Schaltungen (V2 + Ü1)	f	4	18-sc-2010	Modellbildung und Simulation von elektrischen Schaltungen (V2 + Ü1)	4	0	2.1.1. Hardware oder 3. Optional supplements

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18-ho-1080	HDL: Verilog & VHDL (V3) **)	f	3	18-ho-1080	HDL: Verilog & VHDL (V3) **)	3	0	2.1.1. Hardware oder 3. Optional supplements
18-ho-2020	Computer Aided Design for Integrated Circuits (V2 + Ü1) **)	f	4	18-ho-2020	Computer Aided Design for Integrated Circuits (V2 + Ü1) **)	4	0	2.1.1. Hardware oder 3. Optional supplements
18-su-2030	Model-Based Software Development Lab (Pj3) **)	f	6	18-su-2030	Model-Based Software Development Lab (Pj3) **)	6	0	2.2.2. Systems oder 3. Optional supplements
3.3 Communication Technology								
18-zo-2010	Adaptive Filters (V3 + Ü1)	f	6	18-zo-2010	Adaptive Filters (V3 + Ü1)	6	0	2.2.1. Systems oder 2.3.1. Algorithms oder 3. Optional supplements
18-jk-2020	Antennas and Adaptive Beamforming (V3 + Ü1)	f	6	18-jk-2020	Antennas and Adaptive Beamforming (V3 + Ü1)	6	0	1. Core Competencies oder 2.1.1. Hardware oder 2.2.1. Systems oder 3. Optional supplements
18-ad-2090	Computer Vision in Engineering (V2 + Ü1)	f	4	18-ad-2090	Computer Vision in Engineering (V2 + Ü1)	4	0	2.3.1. Algorithms oder 3. Optional supplements
18-jk-2130	Microwave Engineering II (V3 + Ü1) (formerly: 18-ku-2040)	f	6	18-jk-2130	Microwave Engineering II (V3 + Ü1) (formerly: 18-ku-2040)	6	0	2.1.1. Hardware oder 2.2.1. Systems oder 3. Optional supplements
18-pe-2070	Matrix Analysis and Computations (V3 + Ü1)	f	6	18-pe-2070	Matrix Analysis and Computations (V3 + Ü1)	6	0	1. Core Competencies oder 2.2.1. Systems oder 2.3.1. Algorithms oder 3. Optional supplements
18-jk-2090	Microwave Measurement Technologies (V2 + Ü1 + Pr1)	f	6	18-jk-2090	Microwave Measurement Technologies (V2 + Ü1 + Pr1)	6	0	2.1.1. Hardware oder 2.2.1. Systems oder 3. Optional supplements
18-pe-2030	MIMO - Communication and Space-Time-Coding (V2 + Ü1)	f	4	18-pe-2030	MIMO - Communication and Space-Time-Coding (V2 + Ü1)	4	0	2.1.1. Hardware oder 2.2.1. Systems oder 2.3.1. Algorithms oder 3. Optional supplements
18-zo-2090	Robust Signal Processing With Biomedical Applications (V3 + Ü1)	f	6	18-zo-2090	Robust Signal Processing With Biomedical Applications (V3 + Ü1)	6	0	2.3.1. Algorithms oder 3. Optional supplements
18-zo-2070	Speech and Audio Signal Processing (V2 + Ü1 + S1)	f	6	18-zo-2070	Speech and Audio Signal Processing (V2 + Ü1 + S1)	6	0	2.1.1. Hardware oder 2.2.1. Systems oder 2.3.1. Algorithms oder 3. Optional supplements
18-pr-2010	Terahertz Systems and Applications (V2 + Ü1)	f	4	18-pr-2010	Terahertz Systems and Applications (V2 + Ü1)	4	0	2.1.1. Hardware oder 2.2.1. Systems oder 3. Optional supplements
18-dg-1030	Computational Electromagnetics and Applications I (V2)	f	3	18-dg-1030	Computational Electromagnetics and Applications I (V2)	3	0	2.1.1. Hardware oder 2.2.1. Systems oder 3. Optional supplements
18-zo-2040	Advanced Topics in Statistical Signal Processing (S4)	f	8	18-zo-2040	Advanced Topics in Statistical Signal Processing (S4)	8	0	2.2.2. Systems oder 2.3.2. Algorithms oder 3. Optional supplements
18-jk-2060	Projektseminar Advanced μ Wave Components & Antennas (Pj4)	f	8	18-jk-2060	Projektseminar Advanced μ Wave Components & Antennas (Pj4)	8	0	2.1.2. Hardware oder 3. Optional supplements
18-pe-2040	Projektseminar Neue Themen in der Sensor-Array und Tensor Signalverarbeitung (Pj4)	f	8	18-pe-2040	Projektseminar Neue Themen in der Sensor-Array und Tensor Signalverarbeitung (Pj4)	8	0	2.1.2. Hardware oder 2.2.2. Systems oder 3. Optional supplements

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18-pe-2050	Projektseminar Neue Themen in MIMO Kommunikationsnetzwerken (Pj4)	f	8	18-pe-2050	Projektseminar Neue Themen in MIMO Kommunikationsnetzwerken (Pj4)	8	0	2.1.2. Hardware oder 2.2.2. Systems oder 3. Optional supplements
18-sc-1020	Projektseminar Elektromagnetisches CAD (Pj4) (vormals: 18-dg-1060)	f	8	18-sc-1020	Projektseminar Elektromagnetisches CAD (Pj4) (vormals: 18-dg-1060)	8	0	2.1.2. Hardware oder 3. Optional supplements
18-zo-2100	Robust and Biomedical Signal Processing (S4)	f	8	18-zo-2100	Robust and Biomedical Signal Processing (S4)	8	0	2.3.2. Algorithms oder 3. Optional supplements
18-zo-2050	Signal Detection and Parameter Estimation (S4)	f	8	18-zo-2050	Signal Detection and Parameter Estimation (S4)	8	0	2.2.2 Systems oder 2.3.2. Algorithms oder 3. Optional supplements
18-zo-2030	Digital Signal Processing Lab (Pr3)	f	6	18-zo-2030	Digital Signal Processing Lab (Pr3)	6	0	2.1.2. Hardware oder 2.2.2. Systems oder 2.3.2. Algorithms oder 3. Optional supplements
18-sc-1010	Software Lab Computational Electromagnetics and Applications I (Pr3) (formerly: 18-dg-1041)	f	8	18-sc-1010	Software Lab Computational Electromagnetics and Applications I (Pr3) (formerly: 18-dg-1041)	8	0	2.3.2. Algorithms oder 3. Optional supplements
18-zo-2110	Data Science I (V2 + Ü2)	f	5	18-zo-2110	Data Science I (V2 + Ü2)	5	0	2.3.1. Algorithms oder 3. Optional supplements
18-ha-2010	Wettbewerb künstliche Intelligenz in der Medizin (Pj4)	f	8	18-ha-2010	Wettbewerb künstliche Intelligenz in der Medizin (Pj4)	8	0	2.3.2. Algorithms oder 3. Optional supplements
18-zo-2090	Robust Signal Processing With Biomedical Applications (V3 + Ü1)	f	6	18-zo-2090	Robust Signal Processing With Biomedical Applications (V3 + Ü1)	6	0	2.3.1. Algorithms oder 3. Optional supplements
18-ku-2080	Optical Communications 3 – Seminar WDM Lab (S2) [™]	f	4	18-ku-2080	Optical Communications 3 – Seminar WDM Lab (S2) ^{**}	4	0	2.2.2. Systems oder 3. Optional supplements
18-ku-2220	Nonlinear Optics (V2) [™]	f	3	18-ku-2220	Nonlinear Optics (V2) ^{**}	3	0	upon request
18-jk-2070	Microwave Sensors (V2 + Ü2) [™]	f	5	18-jk-2070	Microwave Sensors (V2 + Ü2) ^{**}	5	0	2.1.1. Hardware oder 3. Optional supplements
18-ku-2070	Optical Communications 2 – Systems (V2 + Ü1) [™]	f	4	18-ku-2070	Optical Communications 2 – Systems (V2 + Ü1) ^{**}	4	0	2.2.1. Systems oder 3. Optional supplements
18-zo-2080	Advances in Digital Signal Processing: Imaging and Image Processing (V2 + Ü2) [™]	f	5	18-zo-2080	Advances in Digital Signal Processing: Imaging and Image Processing (V2 + Ü2) ^{**}	5	0	2.3.1. Algorithms oder 3. Optional supplements
3.4 Communication Systems								
18-se-2010	Acoustics I (V2)	f	3	18-se-2010	Acoustics I (V2)	3	0	2.3.1. Algorithms oder 3. Optional supplements
18-pe-2020	Convex Optimization in Signal Processing and Communications (V2 + Ü1 + Pr1)	f	6	18-pe-2020	Convex Optimization in Signal Processing and Communications (V2 + Ü1 + Pr1)	6	0	2.1.1. Hardware oder 2.2.1. Systems oder 2.3.1. Algorithms oder 3. Optional supplements
18-kp-1010	Information Theory I (V3 + Ü1)	f	6	18-kp-1010	Information Theory I (V3 + Ü1)	6	0	2.2.1. Systems oder 2.3.1. Algorithms oder 3. Optional supplements

Module nach PO 2014			CP	Module nach PO 2023				
18-pe-2010	Information Theory II (V3 + Ü1)	f	6	18-pe-2010	Information Theory II (V3 + Ü1)	6	0	2.2.1. Systems oder 2.3.1. Algorithms oder 3. Optional supplements
18-kp-2110	Machine Learning in Information and Communication Technology (ICT) (V2 + Ü1 + Pr1)	f	6	18-kp-2110	Machine Learning in Information and Communication Technology (ICT) (V2 + Ü1 + Pr1)	6	0	1. Core Competencies oder 2.2.1. Systems oder 2.3.1. Algorithms oder 3. Optional supplements
18-jk-2090	Microwave Measurement Technologies (V2 + Ü1 + Pr1)	f	6	18-jk-2090	Microwave Measurement Technologies (V2 + Ü1 + Pr1)	6	0	2.2.1. Systems oder 2.3.1. Algorithms oder 3. Optional supplements
18-pe-2030	MIMO - Communication and Space-Time-Coding (V2 + Ü1)	f	4	18-pe-2030	MIMO - Communication and Space-Time-Coding (V2 + Ü1)	4	0	2.1.1. Hardware oder 2.2.1. Systems oder 2.3.1. Algorithms oder 3. Optional supplements
18-kl-2020	Mobile Communications (V3 + Ü1)	f	6	18-kl-2020	Mobile Communications (V3 + Ü1)	6	0	1. Core Competencies oder 2.2.1. Systems oder 2.3.1. Algorithms oder 3. Optional supplements
18-jk-2040	Radar Techniques (V2)	f	3	18-jk-2040	Radar Techniques (V2)	3	0	2.2.1. Systems oder 3. Optional supplements
18-kl-2040	Project Seminar Wireless Communications (Pj4)	f	8	18-kl-2040	Project Seminar Wireless Communications (Pj4)	8	0	2.2.2. Systems oder 3. Optional supplements
18-kt-2010	Praktikum Kommunikationstechnik und Sensorsysteme (Pr3) (vormals: 18-jk-2050)	f	5	18-kt-2010	Praktikum Kommunikationstechnik und Sensorsysteme (Pr3) (vormals: 18-jk-2050)	5	0	2.2.2. Systems oder 3. Optional supplements
18-pe-2060	Sensor Array Processing and Adaptive Beamforming (V2 + Ü1)	f	4	18-pe-2060	Sensor Array Processing and Adaptive Beamforming (V2 + Ü1)	4	0	2.2.1. Systems oder 2.3.1. Algorithms oder 3. Optional supplements
18-pr-2020	International Summer School "Microwaves and Lightwaves" (S2)	f	4	18-pr-2020	International Summer School "Microwaves and Lightwaves" (S2)	4	0	2.1.2 Hardware oder 3. Optional supplements
18-pe-2080	Graph signal processing, learning and optimization (V3 + Ü1)	f	6	18-pe-2080	Graph signal processing, learning and optimization (V3 + Ü1)	6	0	2.2.1. Systems oder 2.3.1. Algorithms oder 3. Optional supplements
18-ha-2010	Artificial Intelligence in Medicine Challenge (Pj4)	f	8	18-ha-2010	Artificial Intelligence in Medicine Challenge (Pj4)	8	0	2.3.2. Algorithms oder 3. Optional supplements
18-ad-2110	Automated Driving (V2)	f	3	18-ad-2110	Automated Driving (V2)	3	0	2.2.1. Systems oder 3. Optional supplements
18-fi-2020	Control of Distributed Cyber-Physical Systems (V2 + Ü1)	f	4	18-fi-2020	Control of Distributed Cyber-Physical Systems (V2 + Ü1)	4	0	upon request
18-ad-2130	Optimierung in Multiagentensystemen (V2+Ü1)	f	4	18-ad-2130	Optimierung in Multiagentensystemen (V2+Ü1)	4	0	2.3.1. Algorithms oder 3. Optional supplements
18-jk-2080	European Microwave School (S2) **	f	3	18-jk-2080	European Microwave School (S2) **	3	0	2.2.2. Systems oder 3. Optional supplements
18-jk-2100	Ausgewählte Themen der Radartechnik (V2) (formerly: 18-da-2020) **	f	3	18-jk-2100	Ausgewählte Themen der Radartechnik (V2) (formerly: 18-da-2020) **	3	0	2.2.1. Systems oder 3. Optional supplements
18-jk-2030	Terrestrial and Satellite-based Radio Systems (V3 + Ü1) **	f	6	18-jk-2030	Terrestrial and Satellite-based Radio Systems (V3 + Ü1) **	6	0	2.2.1. Systems oder 3. Optional supplements

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18-kl-2060	Simulation and Modeling Techniques and Tools for Mobile Communication Systems (V2) **	f	3	18-kl-2060	Simulation and Modeling Techniques and Tools for Mobile Communication Systems (V2) **	3	0	2.2.1. Systems oder 3. Optional supplements
18-ku-2070	Optical Communications 2 – Systems (V2 + Ü1) **	f	4	18-ku-2070	Optical Communications 2 – Systems (V2 + Ü1) **	4	0	2.2.1. Systems oder 3. Optional supplements
18-ku-2080	Optical Communications 3 – Seminar WDM Lab (S2) **	f	4	18-ku-2080	Optical Communications 3 – Seminar WDM Lab (S2) **	4	0	2.2.2. Systems oder 3. Optional supplements
3.5 Communication Science and Media Technology								
18-kp-2110	Machine Learning in Information and Communication Technology (ICT) (V2 + Ü1 + Pr1)	f	6	18-kp-2110	Machine Learning in Information and Communication Technology (ICT) (V2 + Ü1 + Pr1)	6	0	1. Core Competencies oder 2.2.1. Systems oder 2.3.1. Algorithms oder 3. Optional supplements
20-00-0056	Network, Traffic and Quality Management for Internet Services (V2)	f	3	20-00-0056	Network, Traffic and Quality Management for Internet Services (V2)	3	0	2.2.1. Systems oder 2.3.1. Algorithms oder 3. Optional supplements
20-00-0512	Network Security (iV4)	f	6	20-00-0512	Network Security (iV4)	6	0	2.2.1. Systems oder 2.3.1. Algorithms oder 3. Optional supplements
20-00-0553	Project on Secure Mobile Networking (Pr6)	f	9	20-00-0553	Project on Secure Mobile Networking (Pr6)	9	0	2.3.2. Algorithms oder 3. Optional supplements
20-00-0366	Serious Games (iV4)	f	6	20-00-0366	Serious Games (iV4)	6	0	2.3.2. Algorithms oder 3. Optional supplements
18-sm-2280	Software Defined Networking (V2 + Ü2) (formerly 18-hh-2050)	f	6	18-sm-2280	Software Defined Networking (V2 + Ü2) (formerly 18-hh-2050)	6	0	2.2.1. Systems oder 2.3.1. Algorithms oder 3. Optional supplements
20-00-0120	TK3: Mobile/Ubiquitous Computing (iV4)	f	6	20-00-0120	TK3: Mobile/Ubiquitous Computing (iV4)	6	0	2.2.1. Systems oder 2.3.1. Algorithms oder 3. Optional supplements

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20-00-0121	Ubiquitous computing in business processes (V2)	f	3	20-00-0121	Ubiquitous computing in business processes (V2)	3	0	2.3.1. Algorithms oder 3. Optional supplements
18-sm-2090	Multimedia Communications Seminar II (S2)	f	4	18-sm-2090	Multimedia Communications Seminar II (S2)	4	0	2.2.2. Systems oder 2.3.2. Algorithms oder 3. Optional supplements
18-sm-2070	Multimedia Communications Lab II (Pr3)	f	6	18-sm-2070	Multimedia Communications Lab II (Pr3)	6	0	2.3.2. Algorithms oder 3. Optional supplements
20-00-0552	Lab Exercise on Secure Mobile Networking (Pr4)	f	6	20-00-0552	Lab Exercise on Secure Mobile Networking (Pr4)	6	0	2.2.2. Systems oder 2.3.2. Algorithms oder 3. Optional supplements
18-sm-2130	Multimedia Communications Project II (Pr6)	f	9	18-sm-2130	Multimedia Communications Project II (Pr6)	9	0	2.2.2. Systems oder 2.3.2. Algorithms oder 3. Optional supplements
20-00-0418	Visual Computing Lab (Pr4)	f	6	20-00-0418	Visual Computing Lab (Pr4)	6	0	2.3.2. Algorithms oder 3. Optional supplements
18-kb-2020	Relativistic Electrodynamics (V2 + Ü2)	f	5	18-kb-2020	Relativistic Electrodynamics (V2 + Ü2)	5	0	upon request
18-kl-2070	Fundamentals of Reinforcement Learning (V2 + Ü1)	f	4	18-kl-2070	Fundamentals of Reinforcement Learning (V2 + Ü1)	4	0	2.3.1. Algorithms oder 3. Optional supplements
18-ad-2110	Automatisiertes Fahren (V2)	f	3	18-ad-2110	Automatisiertes Fahren (V2)	3	0	2.2.1. Systems oder 3. Optional supplements
18-sa-2020	Mobile Sensing (V2 + Ü2) **	f	6	18-sa-2020	Mobile Sensing (V2 + Ü2) **	6	0	2.2.1. Systems oder 3. Optional supplements
18-sm-2140	Content Networking (V2) **	f	3	18-sm-2140	Content Networking (V2) **	3	0	2.2.1. Systems oder 3. Optional supplements
18-hh-2070	Smart Networks Lab (Pr3) **	f	6	18-hh-2070	Smart Networks Lab (Pr3) **	6	0	2.2.2. Systems oder 3. Optional supplements
20-00-0066	TK 2: Web Engineering, Web Cooperation and e-Learning (iV2) **	f	3	20-00-0066	TK 2: Web Engineering, Web Cooperation and e-Learning (iV2) **	3	0	2.2.1. Systems oder 3. Optional supplements
18-hh-2010	Peer-to-Peer Systems and Applications (V2 + Ü2) **	f	6	18-hh-2010	Peer-to-Peer Systems and Applications (V2 + Ü2) **	6	0	2.2.1. Systems oder 3. Optional supplements

Module nach PO 2014			CP	Module nach PO 2023					
18-hh-2060	Seminar Software Defined Networking (S2) **)	f	4	18-hh-2060	Seminar Software Defined Networking (S2) **)	4	0	2.2.2. Systems oder 3. Optional supplements	
18-sm-2100	Algorithms for Mobile Networks (V2) **)	f	3	18-sm-2100	Algorithms for Mobile Networks (V2) **)	3	0	2.3.1. Algorithms oder 3. Optional supplements	
20-00-0354	Wireless Sensor Networks lab (Pr4) **)	f	6	20-00-0354	Wireless Sensor Networks lab (Pr4) **)	6	0	2.2.2. Systems oder 3. Optional supplements	
18-sm-2030	Communication Networks IV (V2) **)	f	3	18-sm-2030	Communication Networks IV (V2) **)	3	0	2.2.1. Systems oder 3. Optional supplements	Systems
3.6 IT in Engineering, Computer Science, Mathematics, and Physics									
4. Studium Generale				4. Studium Generale					
4.1 Business Administration				4.2 Entrepreneurship and Management					
01-14-1030	Bookkeeping (V2 + TT1)		2						
01-10-1028/f	Introduction to Business Management (V2)		3						
01-60-1042/f	Introduction to Economics (V2)		3						
4.2 Languages				4.4 Languages, Soft Skills					
				4.4.1. German as Foreign Language (min. 1 module)					
	All German Courses of the Language Resource Centre			All German Courses of the Language Resource Centre					
				4.4.2. Foreign Languages, Soft Skills					
				Modules from the Language Resource Centre and other					
				18-de-1999	Einsatz in der Lehre (Tutor_innentätigkeit)				
				18-xy-1999-tt	Einsatz in der Lehre (Tutor_innentätigkeit) (ein Kurs pro Fachgebiet)				

Module nach PO 2014		CP	Module nach PO 2023						
4.3 Miscellaneous				4.1 Humanities and Social Sciences					
Chosen modules offered by Dept. (FB) 1, 2, 3, and 15				Modules from FB2 and FB3, ...					
			02-22-1111	Introduction to Sociology of Work and Technology					
			03-03-1363	Organizational and Business Psychology					
			02-11-2027	Ethics and their Application					
			02-11-2025	Ethics and Evaluation of Technology					
				4.3 Engineering and Natural Sciences					
				Modules from FB4, FB5, FB7, FB10, FB11, FB13, FB16 and FB20					
				4.5 Introduction into professional life					
			18-kn-1060	Excursion SAE					
			16-21-5030	Work and Process Organization					
			16-21-5030-ue	Work and Process Organization					
			16-21-5020	Human Factors/Ergonomics					
			18-gt-4010	Standardization, Testing and Approvals in the Electrotechnical Area					
			18-ko-3010	Patents - How to Protect Technical Inventions					
5. Master-Thesis		30	5. Master's Thesis					30	0
			18-00-5000	Master's Thesis					