

Exclosure to Subject Specific Regulations from 25.07.2018
 for Master-Programme
 Information and Communication Systems
 at TUHH
 Programme Director: Prof. Andreas Timm-Giel
 Total: 120 CP
 Number of Specialisations to choose: 1



Course Scheme Master Information and Communication Systems (IMPICS)

Consolidated Version
 for Study Cohort: WiSe17/18
 according to Decision of Academic Senate:
 25.07.2018
 and Approval of Chair from: 22.08.2018
 Replaces Version from: 26.04.2017
 In Force on: 01.10.2018
 Out of Force on: 30.09.2020

Information regarding the lectures are available in the TUHH modul manuals as well as in the course catalogue.

Module							Examination		
Re com. Term	Module Name (German / English)	Language	Module Responsibility	Institute	C/EC (1)	CM/OM (2)	CP (4)	Grade	Examination Form(3)
Core qualification Compulsory Courses: 48 LP Optional Courses: 0 LP									
2	Informationstheorie und Codierung / Information Theory and Coding	DE / EN	Prof. Bauch	E-8	C	CM	6	Y	KL
2	Technischer Ergänzungskurs für IMPICS (laut FSPO) / Technical Complementary Course for IMPICS (according to Subject Specific Regulations)		Prof. Timm-Giel	E-4	C	OM	12	according to Subject Specific Regulations	
3	Forschungsprojekt und Seminar / Research Project and Seminar	DE / EN	Prof. Zimmermann	SD-E	C	CM	18	Y	STA
1-3	Nichttechnische Ergänzungskurse im Master / Nontechnical Elective Complementary Courses for Master	DE / EN	Richter	0-TUHH	C	OM	6	Selection out of seperatly published Catalogue	
1-3	Betrieb & Management / Business & Management	DE / EN	Prof. Meyer	W-1	C	OM	6	Selection out of seperatly published Catalogue	
Specialisation Communication Systems Compulsory Courses: 6 LP Optional Courses: 12 LP									
1	Digitale Nachrichtenübertragung / Digital Communications	DE / EN	Prof. Bauch	E-8	C	CM	6	Y	KL
1	Hochfrequenztechnik / Microwave Engineering	DE / EN	Prof. Jacob	E-3	EC	CM	6	Y	KL
1	Kommunikationsnetze I - Analyse und Struktur / Communication Networks I - Analysis and Structure	EN	Prof. Timm-Giel	E-4	EC	CM	6	Y	RE

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2	Kommunikationsnetze II - Simulation und Modellierung / Communication Networks II - Simulation and Modeling	EN	Prof. Timm-Giel	E-4	EC	CM	6	Y	MP	
2	Weiterführende Konzepte der drahtlosen Kommunikation / Advanced Concepts of Wireless Communications	EN	Dr. Grünheid	E-8	EC	CM	6	Y	KL	
3	Traffic Engineering / Traffic Engineering	EN	Prof. Timm-Giel	E-4	EC	CM	6	Y	MP	
Focus Software Compulsory Courses: 0 LP Optional Courses: 12 LP										
1	Softwareanalyse / Software Analysis	EN	Prof. Schupp	E-16	EC	CM	6	Y	FFA	
1	Softwareverifikation / Software Verification	EN	Prof. Schupp	E-16	EC	CM	6	Y	KL	
2	Anwendungssicherheit / Application Security	EN	Prof. Gollmann	E-15	EC	CM	6	Y	KL	
2	Software für Eingebettete Systeme / Software for Embedded Systems	DE / EN	Prof. Turau	E-17	EC	CM	6	Y	KL	
2	Softwaretesten / Software Testing	EN	Prof. Schupp	E-16	EC	CM	6	Y	FFA	
Focus Signal Processing Compulsory Courses: 0 LP Optional Courses: 12 LP										
1	Digitale Audiosignalverarbeitung / Digital Audio Signal Processing	EN	Prof. Zölzer	E-8	EC	CM	6	Y	KL	
1	Digitale Bildanalyse / Digital Image Analysis	EN	Prof. Grigat	E-2	EC	CM	6	Y	KL	
1	Digitale Signalverarbeitung und Digitale Filter / Digital Signal Processing and Digital Filters	EN	Prof. Bauch	E-8	EC	CM	6	Y	KL	
2	Computer-Grafik / Computer Graphics	EN	Prof. Knopp	E-5	EC	CM	6	Y	KL	
2	Mustereerkennung und Datenkompression / Pattern Recognition and Data Compression	EN	Prof. Grigat	E-2	EC	CM	6	Y	KL	
3	3D Computer Vision / 3D Computer Vision	EN	Prof. Grigat	E-2	EC	CM	6	Y	KL	
Specialisation Secure and Dependable IT Systems Compulsory Courses: 6 LP Optional Courses: 12 LP										
1	Softwareverifikation / Software Verification	EN	Prof. Schupp	E-16	C	CM	6	Y	KL	
1	Software-Sicherheit / Software Security	EN	Prof. Gollmann	E-15	EC	CM	6	Y	KL	
2	Anwendungssicherheit / Application Security	EN	Prof. Gollmann	E-15	EC	CM	6	Y	KL	
2	Kryptographie / Cryptography	DE / EN	Prof. Brzuska	M-EXK1	EC	CM	6	Y	MP	
2	Netzwerk-Sicherheit / Network Security	EN	Prof. Gollmann	E-15	EC	CM	6	Y	KL	
Focus Networks Compulsory Courses: 0 LP Optional Courses: 12 LP										
1	Digitale Nachrichtenübertragung / Digital Communications	DE / EN	Prof. Bauch	E-8	EC	CM	6	Y	KL	
1	Kommunikationsnetze I - Analyse und Struktur / Communication Networks I - Analysis and Structure	EN	Prof. Timm-Giel	E-4	EC	CM	6	Y	RE	
2	Kommunikationsnetze II - Simulation und Modellierung / Communication Networks II - Simulation and Modeling	EN	Prof. Timm-Giel	E-4	EC	CM	6	Y	MP	
3	Traffic Engineering / Traffic Engineering	EN	Prof. Timm-Giel	E-4	EC	CM	6	Y	MP	
Focus Software and Signal Processing Compulsory Courses: 0 LP Optional Courses: 12 LP										
1	Digitale Audiosignalverarbeitung / Digital Audio Signal Processing	EN	Prof. Zölzer	E-8	EC	CM	6	Y	KL	

Module							Examination		
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1	Digitale Bildanalyse / Digital Image Analysis	EN	Prof. Grigat	E-2	EC	CM	6	Y	KL
1	Softwareanalyse / Software Analysis	EN	Prof. Schupp	E-16	EC	CM	6	Y	FFA
2	Computer-Grafik / Computer Graphics	EN	Prof. Knopp	E-5	EC	CM	6	Y	KL
2	Mustererkennung und Datenkompression / Pattern Recognition and Data Compression	EN	Prof. Grigat	E-2	EC	CM	6	Y	KL
2	Software für Eingebettete Systeme / Software for Embedded Systems	DE / EN	Prof. Turau	E-17	EC	CM	6	Y	KL
2	Softwaretesten / Software Testing	EN	Prof. Schupp	E-16	EC	CM	6	Y	FFA
3	3D Computer Vision / 3D Computer Vision	EN	Prof. Grigat	E-2	EC	CM	6	Y	KL
Thesis Compulsory Courses: 30 LP Optional Courses: 0 LP									
4	Masterarbeit / Master Thesis		Professoren der TUHH	0-TUHH	C	CM	30	Y	AB

Explanation:

¹C=Compulsory, EC=Elective Compulsory

²CM=Compulsory Defined Module, OM=Optional Defined Module

³KL=Written exam, SA=Written elaboration, FFA=Subject theoretical and practical work, MP=Oral exam, RE=Presentation, STA=Study work, AB=Thesis

⁴CP=Credit Points

⁵VL=Lecture, SE=Seminar, UE=Recitation Section (small), PBL=Project-/problem-based Learning, PR=Practical Course, PK=Projection Course, HÜ=Recitation Section (large)

⁶DE=German, EN=English, DE/EN=German and English

⁷SWS=Contact hours