

Exclosure to Subject Specific Regulations from 25.07.2018
for Master-Programme Microelectronics and Microsystems
at TUHH

Programme Director: Prof. Hoc Khiem Trieu

Total: 120 CP

Number of Specialisations to choose: 1



Course Scheme Master Microelectronics and Microsystems (IMPMM)

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.

Re com. Term	Module						Exami nation		
	Module Name (German / English)	Language	Module Responsibility	Institute	C/EC (1)	CM/ OM (2)	CP (4)	Grade	Exami nation Form(3)
Core qualification Compulsory Courses: 28 LP Optional Courses: 44 LP									
1	CMOS-Nanoelektronik mit Praktikum / CMOS Nanoelectronics with Practice	EN	NN	E-9	EC	CM	6	Y	KL
1	Elektronische Bauelemente und Schaltungen / Electronic Devices and Circuits	EN	Dr. Schröder	E-9	EC	CM	6	Y	MP
1	Mikrosystemtechnik / Microsystem Engineering	EN	Prof. Kasper	E-7	EC	CM	6	Y	KL
1	Mikrosystemtechnologie in Theorie und Praxis / Microsystems Technology in Theory and Practice	EN	Prof. Trieu	E-7	EC	CM	6	Y	MP
2	Grundlagen des IC-Entwurfes / Fundamentals of IC Design	DE / EN	NN	E-9	EC	CM	6	Y	MP
2	Halbleiterseminar / Semiconductor Seminar	EN	Dr. Schröder	E-9	EC	CM	2	Y	RE
2	Mikrosystementwurf / Microsystem Design	EN	Prof. Kasper	E-7	EC	CM	6	Y	MP
2	Technischer Ergänzungskurs für IMPMM - Bereich ET (laut FSPO) / Technical Elective Complementary Course for IMPMM - field ET (according to Subject Specific Regulations)		Prof. Trieu	E-7	EC	OM	6	according to Subject Specific Regulations	
2-3	Praktischer Schaltungsentwurf analog und digital / Laboratory: Analog and Digital Circuit Design	DE	NN	E-9	EC	CM	6	Y	KL
3	Projektarbeit IMPMM / Project Work IMPMM		NN	E-9	C	CM	16	Y	STA
3	Seminar Informationstechnik / Seminar Communications Engineering	DE / EN	Prof. Bauch	E-8	EC	CM	2	Y	RE
3	Technischer Ergänzungskurs für IMPMM - Bereich TUHH (laut FSPO) / Technical Elective Complementary Course for IMPMM - field TUHH (according to Subject Specific Regulations)		Prof. Trieu	E-7	EC	OM	6	according to Subject Specific Regulations	

		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)	
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 and Signal Processing Compulsory Courses: 0 LP Optional Courses: 18 LP										
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	
2	Faseroptik und Integrierte Optik / Fibre and Integrated Optics	EN	Prof. Eich	E-12	EC	CM	4	Y	KL	
2	Weiterführende Konzepte der drahtlosen Kommunikation / Advanced Concepts of Wireless Communications	EN	Dr. Grünheid	E-8	EC	CM	6	Y	KL	
3	3D Computer Vision / 3D Computer Vision	EN	Prof. Grigat	E-2	EC	CM	6	Y	KL	
3	Digitale Audiosignalverarbeitung / Digital Audio Signal Processing	EN	Prof. Zölzer	E-8	EC	CM	6	Y	KL	
3	Digitale Bildanalyse / Digital Image Analysis	EN	Prof. Grigat	E-2	EC	CM	6	Y	KL	
Specialisation Microelectronics Complements Compulsory Courses: 0 LP Optional Courses: 18 LP										
1	Medizinelektronik / Electronic Circuits for Medical Applications	EN	NN	E-9	EC	CM	6	Y	MP	
2	Optoelektronik I - Wellenoptik / Optoelectronics I - Wave Optics	EN	Prof. Eich	E-12	EC	CM	4	Y	KL	
3	Digitale Signalverarbeitung und Digitale Filter / Digital Signal Processing and Digital Filters	EN	Prof. Bauch	E-8	EC	CM	6	Y	KL	
3	Optoelektronik II - Quantenoptik / Optoelectronics II - Quantum Optics	EN	Prof. Eich	E-12	EC	CM	4	Y	KL	
3-4	Design von hochkomplexen integrierten Systemen und CAD-Werkzeuge / Design of Highly Complex Integrated Systems and CAD Tools	EN	Prof. Klinger	E-9	EC	CM	6	Y	MP	
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, HÜ=Recitation Section (large)

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

⁷SWS=Contact hours