

Annex SFB

Studienfachbeschreibung (subject description, SFB) for the subject Computer Science as a Master's with 1 major with the degree "Master of Science" (120 ECTS credits)

Responsible: Faculty of Mathematics and Computer Science Responsible: Institute of Computer Science Examination regulations version: 2023 Examination regulations version: 2023

Abbreviations used:	Course types: E = field trip, K = colloquium, O = conversatorium, P = placement/lab course, R = project, S = seminar, T = tutorial, Ü = exercise, V = lecture									
	Term: SS = summer semester, WS = winter semester									
	Methods of grading: NUM = numerical grade, B/NB = (not) successfully completed									
	Regulations: (L)ASPO = general academic and examination regulations (for teaching-degree programmes), FSB = subject-specific provisions, SFB = list of modules									
	Other: A = thesis, LV = course(s), PL = assessment(s), TN = participants, VL = prerequisite(s)									
Conventions for the modules in this SFB:	Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not cre- ditable for bonus.									
Information on assessment procedures:	Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the me- thod of assessment to be used in the current semester by two weeks after the start of the course at the latest and will communicate this in the customary manner.									
	Should a module comprise more than one graded assessment, all assessments will be equally weighted, unless otherwise stated below.									
	Should the assessment comprise several individual assessments, successful completion of the module will require successful completion of all individual assessments.									

In accordance with the general regulations governing the degree subject described in this module catalogue:

ASPO2015

associated official publications (FSB (subject-specific provisions)/SFB (list of modules)):

22-Mar-2023 (2023-27)

13-Dec-2023 (2023-109)

This module handbook seeks to render, as accurately as possible, the data that is of statutory relevance according to the examination regulations of the degree subject. However, only the FSB (subject-specific provisions) and SFB (list of modules) in their officially published versions shall be legally binding. In the case of doubt, the provisions on, in particular, module assessments specified in the FSB/SFB shall prevail.

Every module will be described using the following form:

Abbreviation	Module title										
	ECTS	D	uration	(in semesters)	Method of grading	Module level					
	Courses		To be spe	To be specified in the form X (y) with course type X abbreviated as specified above and number of weekly contact hours y							
	Method of as	ssessmer	nt								
	Only after su completion of		if applica	if applicable							
	Other prereq	uisites	if applica	ble							
	Participants and allocati- on of places		ati- if applica	ble							
	Additional information		n if applica	ble							
	Referred to in	n LPO I	if applica	ble (examination r	regulations for teaching	g-degree programmes)					

10-I=SEM3-232-	Seminar 1 - Current Topics in Computer Science											
m01	ECTS	ECTS 5 Duration			1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	25										
	Metho	Method of assessment			term paper (10 to 15 pages) and presentation (30 to 45 minutes) with subsequent discussion on a topic from the field of com- puter science Language of assessment: German and/or English							
		1	ormation	LR, H	CI, GE, SEC, IN		programme Informatik (Co	mputer Science, 12	o ECTS credits): AT, SE, IT, KI, ES,			
10-I=SEM4-232-		ar 2 - Ci	irrent Top	ics in (cs in Computer Science							
m01	ECTS 5 Duration			n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	Courses			S (2) Module taught in: German and English The course is offered in parallel in both German and English.							
	Metho	Method of assessment			term paper (10 to 15 pages) and presentation (30 to 45 minutes) with subsequent discussion on the topic of the seminar Language of assessment: German and/or English							
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, SE, IT, KI, ES, LR, HCI, GE, SEC, IN								
10-I=PRAK-232-	Practio	al Cour	se - Curre	nt Top	ics in Computer S	cience						
m01	ECTS	10	Duratio	n	1 semester	Method of grading	(not) successfully comple	ted Modul level	graduate			
	Courses			P (6) Module taught in: German and English The course is offered in parallel in both German and English.								
	Method of assessment				term paper (5 to 15 pages) Language of assessment: German and/or English							
	Additional Information				Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, SE, IT, KI, ES, LR, HCI, GE, SEC, IN							

Compulsory Electiv	/es (70 E	CTS cre	edits)										
General Compulso	ry Electiv	ves (50	ECTS cree	lits)									
10-l=3D-232-m01	3D Poi	3D Point Cloud Processing											
	ECTS 5 Duration			n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses				+ Ü (2) ıle taught in: Engli								
				If anr of on date) Lang credi	written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus								
	Additic	onal Info	ormation	Focus	ses available for st	udents of the Master's	programme Informatil	k (Computer Science, 120	o ECTS credits): KI,LR,HCI,GE				
10-l=BS-232-m01	Operating Systems												
	ECTS 5 Duratio			n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			V (2)	V (2) + Ü (2)								
	Metho	d of ass	sessment	written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus									
	Additic	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE,ES,GE,SEC								
10-I=DM-232-m01	Data S	cience											
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		V (2)	+ Ü (2)			·					
	Metho	d of ass	sessment	written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus									
	Additional Information				Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT, KI, HCI, GE, SEC, IN								

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10-I=DB2-212-m01	Databases 2											
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	s		V (2) ·	+ Ü (2)	· · ·	•					
	Methoo	d of asso	essment	lf ann of one date). Langu	written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE, KI, HCI							
	Additic	nal Info	rmation									
10-l=lCG-232-m01	Interactive Computer Graphics											
	ECTS	5	Duratio	า	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (2) ·	+ Ü (2)							
	A 1 1997			If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus								
				Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): HCI.								
10-l=KT-232-m01			Complex					1				
	ECTS	5	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate				
		d of asso		V (2) + Ü (2) written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus								
	Additio	onal Info	rmation	Focus	es available for st	udents of the Master's programme Informatik (Computer Science, 120	o ECTS credits): AT,IT,KI,ES,GE,IN				

10-I=KD-232-m01	Crypto	Cryptography and Data Security											
	ECTS	5	Duratior	1	1 semester	Method of grading	g numerical grade	Modul level	graduate				
	Course	S		V (2)	+ Ü (2)			·					
	Methoo	d of ass	essment	lf ann of on date) Lang	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits):								
	Additio	nal Info	ormation	Focu									
10-I=APR-212-m01	Advanc	AT,SE,IT,KI,GE,SEC,IN Advanced Programming											
	ECTS	5	Duration		1 semester	Method of grading	g numerical grade	Modul level	graduate				
	Course	S		V (2)	+ Ü (2)								
			essment	lf ann of on date) Lang	written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus								
	Additio	nal Info	ormation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE,KI,LR, HCI, ES,GE,SEC									
10-I=SSS-232-m01	Security of Software Systems												
	ECTS	5	Duratior	ı	1 semester	Method of grading	g numerical grade	Modul level	graduate				
	Course	S			+ Ü (2) ıle taught in: Engli	sh							
	Methoo	d of ass	essment	lf ann of on date) Lang	nounced by the led e candidate each	(approx. 20 minutes)	g of the course, the wr		replaced by an oral examination es (approx. 15 minutes per candi-				
	Additio	onal Info	ormation	Focu SEC,		udents of the Master	's programme Informa	tik (Computer Science, 12	eo ECTS credits): SE,KI,LR, HCI, ES,				
	Referre			-	II Nr. 3 b)								

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10-I=RAK-232-m01	Compu	Computer Architecture											
	ECTS	5	Duration	ı	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	S		V (2) ·	+ Ü (2)								
	Method	l of asso	essment	If ann of on date) Langu	anguage of assessment: German and/or English reditable for bonus								
						udents of the Master's programme Informatik ((Computer Science, 120	DECTS credits): SE, IT, ES, LR, GE.					
10-I=SKS-232-m01		l Princip	oles of Mo	dern (Communication Sys	stems							
	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Course	S		V (2) ·	$(2) + \ddot{U}(2)$								
				of on date) Langu credit	If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus								
				Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT, ES, LR									
10-I=SEC-232-m01	Introduction to IT Security												
	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	S		· · ·	+ Ü (2) ıle taught in: Englis	h							
	Method	l of asso	essment	lf ann of on date) Langu	written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: English creditable for bonus								
	Additio	onal Info	ormation	Focus	ses available for stu	udents of the Master's programme Informatik ((Computer Science, 120	ECTS credits): SEC					

10-l=WBS-232-	Know	ledge-ba	sed Syste	ems							
m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Cours	ies	•	V (2) -	V (2) + Ü (2)						
			essment	If ann of one date). Langu credit	written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus						
	Addit	ional Info	ormation	Focus	es available for stud	dents of the Master's programme Informatik (Compu	uter Science, 120	o ECTS credits): SE, IT, KI, HCI, GE			
10-I=PRJAK-212-	Proje	ct - Curre	nt Topics	in Con	puter Science						
m01	ECTS	5	Duratio	1	1 semester	Method of grading numerical grade	Modul level	graduate			
	Cours	ies		P (4)							
		ional Info	essment prmation	project report (10 to 15 pages) and presentation of project (15 to 30 minutes) Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered (Each project is offered one time only. The project will not be repeated; there will not be another project with the same topic. Assessment can, therefore, only be offered for the project offered in the respective semester) Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, SE, IT, KI, ES, LR, HCI, GE							
10-LU-	Δυτοι		Aobile Sys								
RI=AMS-232-mo1	ECTS	10	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses			V (4) + Ü (2) Module taught in: German and/or English							
	Method of assessment			written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus							
	Addit	ional Info	rmation	Focus	es available for stud	dents of the Master's programme Informatik (Compu	uter Science, 120	DECTS credits): IT, KI, ES, LR, GE			
	Refer	red to in	LPO I	§ 22	Nr. 3 b)						

10-I=A-	Algorith	ms for	Geograph	nic Info	ormation Systems							
GIS-232-m01	ECTS 5	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			V (2) +	+ Ü (2)			·				
	Method of	ofasse			written examination (approx. 60 to 120 minutes)							
									replaced by an oral examination			
				of one date).	of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-							
				Language of assessment: German and/or English								
				creditable for bonus								
	Addition	al Info	rmation	Focus	es available for stu	udents of the Master's	programme Informatik	k (Computer Science, 120	o ECTS credits): AT,KI,HCI,LR,IN			
10-l=AG-232-m01	Computa	ational	Geometry	у								
	ECTS 5	5	Duration	I	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			V (2) +	+ Ü (2)							
	Method of	ofasse				prox. 60 to 120 minute						
				If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination								
				of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date).								
					Language of assessment: German and/or English							
					creditable for bonus							
	Addition	al Info		Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits):								
				AT,HCI,GE,IN								
	Referred			§ 22 Nr. 3 b)								
10-I=APA-161-m01	Approxin		1						r			
	ECTS 5	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			V (2) + Ü (2)								
	Method o	ofasse		written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination								
				of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date).								
						t: German and/or Eng	lish					
				creditable for bonus								
	Addition	al Info		Focus AT,IT,		udents of the Master's	programme Informatik	k (Computer Science, 120	o ECTS credits):			
	Referred	to in L	.PO I	§ 22	Nr. 3 b)							

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10-I=AUT-212-m01	Automa	ata Theo	ory									
	ECTS	5	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	s		V (2) ·	V (2) + Ü (2)							
			essment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus								
			rmation			dents of the Master's	programme Informatik (Compu	uter Science, 120	ECTS credits): AT, IT, ES, HCI, GE			
		d to in L	-	§ 22	§ 22 II Nr. 3 b)							
10-I=AVS-161-m01		s Syste	1		1			1				
	ECTS 5 Duration				1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	-			+ Ü (2)							
	Method	l of asse	essment	lf ann of one date) Langu	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus							
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): ES,LR								
10-HCI=M-	Multim	odal Us	er Interfa	ces								
MUI-161-m01	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	s		V (2) ·	+ Ü (2)							
	Methoo	l of asse	essment	Langu	presentation of project results (approx. 40 minutes) Language of assessment: German and/or English creditable for bonus							
	Additio	nal Info	rmation	Focus	es available for stu	dents of the Master's	programme Informatik (Compu	uter Science, 120	ECTS credits): HCI,GE.			
	Referre	d to in L	PO I	§ 22	I Nr. 3 b)							

10-I=BER-212-m01	Compu	tability	Theory								
	ECTS	5	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	s		V (2) +	+ Ü (2)						
	Methoo	l of asse		If ann of one date). Langu Asses credit	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus						
						dents of the Master's	programme Informatik (Compu	iter Science, 120	DECTS credits): AT,SE,IT,KI,GE		
		d to in L	-	§ 22	Nr. 3 b)						
07-MS2BI-152-m01			1					1	. .		
	ECTS	10	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S			V (2) + S (1) Module taught in: German and/or English						
	Methoo	l of asse	essment	c) ora d) ora	a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English						
10-I=DDB-212-m01	Deduct	ive Data	bases								
	ECTS	5	Duratio	1 I	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	s		V (2) +	+ Ü (2)						
	Methoo	l of asse	essment	lf ann of one date). Langu	ounced by the lectu e candidate each (ap		of the course, the written examination in groups		replaced by an oral examination 5 (approx. 15 minutes per candi-		
	Additio	nal Info	rmation	Focus	es available for stud	dents of the Master's	programme Informatik (Compu	iter Science, 120	e ECTS credits): AT,SE,IT,KI		
	Referre	d to in L	PO I	§ 22	Nr. 3 b)						

10-l=LP-212-m01	Logic	Program	ming								
	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	es	_	V (2) +	V (2) + Ü (2)						
			essment	If ann of one date). Langu credit	written examination (approx. 60 to 120 minutes) f announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,SE,IT,KI						
	Additi	onal Info	rmation	Focus	es available for stud	dents of the Master's	programme Informatik (Comp	uter Science, 12	o ECTS credits): AT,SE,IT,KI		
		ed to in l	PO I	§ 22	Nr. 3 b)						
10-I=EL-212-m01	E-Lear	ning									
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course		_	V (2) -	· · ·						
	Method of assessment			If ann of one date). Langu	written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus						
	Additi	onal Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE, IT, KI, HCI, GE							
10-I=PNN-212-m01		amming	-								
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course			V (2) +							
				written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus							
	Additi	onal Info	rmation	Focus	es available for stud	dents of the Master's	programme Informatik (Comp	uter Science, 12	o ECTS credits): SE,IT,KI,HCI,GE		

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10-I=NLP-212-m01	Machine Learning for Natural Language Processing											
	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (2) +	V (2) + Ü (2)							
	Method	d of asse	essment			ox. 60 to 120 minute						
									replaced by an oral examination			
				date).	of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- late).							
				Langu	Language of assessment: German and/or English creditable for bonus							
	Additio	onal Info	rmation	Focus	es available for stud	lents of the Master's	programme Informatik (Compu	ter Science, 120	D ECTS credits): AT,KI,HCI			
	Referre	d to in L	PO I	§ 22	l Nr. 3 b)							
10-I=IR-212-m01	Inform	ation Re	trieval									
	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (2) +	V (2) + Ü (2)							
	Method of assessment			If ann of one date). Langu	written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi date). Language of assessment: German and/or English creditable for bonus							
	Additio	onal Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT,KI,HCI,GE								
10-HCI=3DUI-161-	3D Use	er Interfa	ces									
m01	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (2) -	+ Ü (2)							
	Method of assessment			Langu	presentation of project results (approx. 30 minutes) Language of assessment: German and/or English creditable for bonus							
	Additio	onal Info	rmation	Focus	es available for stud	lents of the Master's	programme Informatik (Compu	ter Science, 120	ECTS credits): HCI,GE.			
	Referre	d to in L	PO I	§ 22	l Nr. 3 b)							

10-I=KT2-212-m01	Comput	tationa	l Complex	ity II							
	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	S		V (2) + Ü (2)							
	Method	l of ass	essment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus							
	Additio	nal Info	rmation	Focus	es available for stu	dents of the Master's	programme Informatik (Co	mputer Science, 120	o ECTS credits): AT, SE, IT, ES		
	Referre			§ 22	l Nr. 3 b)						
10-l=Kl1-212-m01		al Intell	igence 1								
	ECTS 5 Duratio				1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	-			V (2) + Ü (2) written examination (approx. 60 to 120 minutes)						
	Method of assessment			If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus							
	Additio	nal Info	ormation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, SE, KI, HCI							
10-l=Kl2-212-m01	Artificia	al Intell	igence 2								
	ECTS	5	Duration	۱	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			V (2) ·							
	Method of assessment			written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus							
	Additio	nal Info	rmation	Focus	es available for stu	dents of the Master's	programme Informatik (Co	mputer Science, 120	o ECTS credits): AT,SE,KI,HCI,GE		

10-I=LVS-232-m01	Perfor	mance E	valuation	of Dis	tributed Systems	; ;					
	ECTS	5	Duration	n	1 semester	Method of grading	g numerical grade	Modul level	graduate		
	Course	s		V (2) ·	+ Ü (2)	•		•	•		
	Metho	d of ass	essment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-							
				date). Langı	date). Language of assessment: German and/or English creditable for bonus Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,IT,GE,IN						
	Additio	onal Info	ormation								
	Referre	ed to in l	LPO I	§ 22	l Nr. 3 b)						
10-I=ML-212-m01	Mathe	matical	Logic								
	ECTS	5	Duration	n	1 semester	Method of grading	g numerical grade	Modul level	graduate		
	Course	!S		V (2) ·	+ Ü (2)						
	Additic		rmation	of one date) Langu Asses credit	If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral exam of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per date). Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits):						
	Additional Information			AT,SE,KI,ES							
		ed to in	-	§ 22 II Nr. 3 b)							
10-I=MI-212-m01		al Inforn			1				.		
	ECTS	5	Duration		1 semester	Method of grading	g numerical grade	Modul level	graduate		
	Course			V (2) + Ü (2)							
				If ann of one date) Langu credit	written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus						
						tudents of the Master	s programme Informat	ik (Computer Science, 120	ECTS credits): SE, IT, KI, HCI, GE		
	Poforra	ed to in l	PO I	§ 22	l Nr. 3 b)						

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10-l=SB-212-m01	Syste	ems Benc	hmarking								
	ECTS	5	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Cour	ses	-	V (2) -	V (2) + Ü (2)						
	Meth	od of ass	essment	written examination (approx. 60 to 120 minutes)							
				of one date).	If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English						
				creditable for bonus							
	Addit	tional Info	ormation		es available for stud ES,HCI,GE	dents of the Master's	programme Informatik (Com	puter Science, 120	DECTS credits):		
10-I=PM-212-m01	Profe	essional P	roject Ma	nagem	ient						
	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Cours	ses		V (4)							
	Meth				written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus						
	othei	r prerequi	sites	We recommend completing module 10-I=PRJAK in parallel.							
	Additional Information				Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE,IT,KI,ES,LR,HCI,GE						
10-LU-	Robo	otics 1									
RI=R01-232-m01	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Cour	ses		V (2) + Ü (2) Module taught in: German and/or English							
	Method of assessment			written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus							
		tional Info				dents of the Master's	programme Informatik (Com	puter Science, 120	o ECTS credits): KI, ES, LR, HCI, GE		
	Refer	rred to in l	_PO I	§ 22	I Nr. 3 b)						

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10-LU-	Robotics 2												
RI=R02-232-m01	ECTS 10 Dur	ation	1 semester	Method of grading numerical g	grade	Modul level	graduate						
	Courses		V (4) + Ü (2) + P (1) Module taught in: German and/or English										
	Method of assessme	If an of o date Lang	written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus										
	Additional Informati	on Foci	uses available for	students of the Master's programme	Informatik (Comput	er Science, 12	o ECTS credits): KI, ES, LR, HCI, GE						
	Referred to in LPO I	§ 22	2 II Nr. 3 b)										
10-l=ST-232-m01	Discrete Event Simu	lation											
	ECTS 5 Dura	ation	1 semester	Method of grading numerical g	grade	Modul level	graduate						
	Courses	V (2) + Ü (2)										
	Method of assessme	If an of o date Lang	If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus										
	Additional Informati	on Foci	uses available for	students of the Master's programme	Informatik (Comput	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT,KI,ES,GE,IN							
1		IT,K											
	Referred to in LPO I												
10-I=El1-232-m01	Referred to in LPO I Energy Informatics	§ 22	I,ES,GE,IN										
10-l=El1-232-m01	Energy Informatics	§ 22	I,ES,GE,IN	Method of grading numerical g	grade	Modul level	graduate						
10-I=EI1-232-m01	Energy Informatics	§ 22 ation V (2)	I,ES,GE,IN 2 II Nr. 3 b) 1 semester) + Ü (2)		grade	Modul level	graduate						
10-I=EI1-232-m01	Energy InformaticsECTS5DurationCourses5Duration	stion V (2) Mod ent writi If an of o date Lang cred	I,ES,GE,IN 2 II Nr. 3 b) 1 semester) + Ü (2) dule taught in: Ger ten examination (a nounced by the le ne candidate each e). guage of assessm litable for bonus	Method of grading numerical g man and/or English approx. 60 to 120 minutes) ecturer at the beginning of the course n (approx. 20 minutes) or an oral exar ent: German and/or English	e, the written examir mination in groups o	nation may be of 2 candidate:	replaced by an oral examination s (approx. 15 minutes per candi-						
10-I=El1-232-m01	Energy InformaticsECTS5DurationCourses5Duration	stion V (2) Mod ent writi If an of o date Lang cred	I,ES,GE,IN 2 II Nr. 3 b) 1 semester) + Ü (2) dule taught in: Ger ten examination (a nounced by the le ne candidate each e). guage of assessm litable for bonus	Method of grading numerical g man and/or English approx. 60 to 120 minutes) ecturer at the beginning of the course n (approx. 20 minutes) or an oral exam	e, the written examir mination in groups o	nation may be of 2 candidate:	replaced by an oral examination s (approx. 15 minutes per candi-						

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10-HCI=RIS-182-	Real-Ti	Real-Time Interactive Systems										
m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (2)	V (2) + Ü (2)							
	Methoo	d of ass	sessment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus								
	Additio	onal Info	ormation			udents of the Master's n 3 Sentence 8 FSB (si		atik (Computer Science, 1 sions).	20 ECTS credits): HCI.			
	Referre	d to in	LPO I	§ 22	II Nr. 3 b)							
10-I=SAR-161-m01	Softwa	re Arch	itecture									
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (2)	+ Ü (2)			, ,				
				If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus								
	Additio	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE,IT,ES							
	Referre	d to in	LPO I	§ 22 Nr. 3 b)								
10-LURI=S-	Spaced	raft Sy	stem Anal	ysis								
SA-232-m01	ECTS	10	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (4) + Ü (2) Module taught in: English								
	Method	d of ass	sessment	written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: English creditable for bonus								
	Additio Referre			Focu		udents of the Master's	s programme Informa	atik (Computer Science, 1	20 ECTS credits): ES, LR			

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10-HCI=M-	Machine Learning (for User Interfaces)										
LUI-161-m01	ECTS	5	Duratior	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses			V (2) + Ü (2)							
	Method of assessment			presentation of project results (approx. 40 minutes) Language of assessment: German and/or English creditable for bonus							
	Additional Information			Focuses available for	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): HCI,GE.						
	Referre	ed to in l	PO I	§ 22 Nr. 3 b)							
10-I=VG-161-m01	Visuali	zation o	of Graphs								
	ECTS	5	Duratior	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	!S		V (2) + Ü (2)							
				If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus							
	Additional Information		rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,IT,HCI,GE							
	Referred to in LPO I		PO I	§ 22 II Nr. 3 b)							
10-I=AGE-232-m01	Selecte	ed Topic	s in Game	es Engineering							
	ECTS	5	Duratior	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	s		V (2) + Ü (2)							
	Method of assessment			 a) written examination (approx. 60 to 120 minutes) or b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus 							
	Additio	onal Info	rmation	Focuses available for	students of the Master's programme Informat	ik (Computer Science, 12	o ECTS credits): GE.				
	Referre	ed to in l	PO I	§ 22 II Nr. 3 b)							

10-I=AKA-232-m01	Selected Topics in Algorithms											
	ECTS 5 Duration		า	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	s		V (2) ·	+ Ü (2)	•		•				
	Method	d of asse	essment	a) wri	tten examination (a	pprox. 60 to 120 minu	utes) or					
								es) and subsequ	ent discussion on the topic) or			
						e candidate each (ap						
						oups of up to 3 candic : German and/or Engl	lates (approx. 15 minutes per	candidate)				
				credit	able for bonus							
	Additio	nal Info	rmation		es available for stu	dents of the Master's	programme Informatik (Comp	uter Science, 120	p ECTS credits):			
				AT								
	Referre	d to in L	PO I	§ 22	l Nr. 3 b)							
10-I=AKT-232-m01	Selecte	ed Topic	s in Theo	ry								
	ECTS	5	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (2) ·	+ Ü (2)							
	Method	d of asse	essment			pprox. 60 to 120 minu						
					b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) or							
				c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate)								
				Language of assessment: German and/or English								
				creditable for bonus								
	Additio	nal Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits):								
				AT								
	Referre	d to in L	PO I	§ 22	l Nr. 3 b)							
10-I=AK-	Selecte	ed Topic	s in Softv	vare Er	ngineering							
SE-232-m01	ECTS	5	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (2) + Ü (2)								
	Method	d of asse	essment			pprox. 60 to 120 minu						
								es) and subsequ	ent discussion on the topic) or			
				c) oral examination of one candidate each (approx. 20 minutes) or								
				d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) Language of assessment: German and/or English								
					able for bonus		1311					
	Additio	nal Info	rmation			dents of the Master's	programme Informatik (Comp	uter Science. 120	ECTS credits): SE.			
		d to in L			I Nr. 3 b)		, <u> </u>	, -				

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10-I=A-	Selected Topics in IT Security										
KITS-232-m01	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S			V (2) + Ü (2) Module taught in: English						
	Methoo	d of ass	essment	 a) written examination (approx. 60 to 120 minutes) or b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) Language of assessment: English creditable for bonus 							
	Additio	onal Info	ormation	Focus ES, S		students of the Master's	programme Informati	ik (Computer Science, 12)	o ECTS credits): SE, KI, LR, HCI,		
	Referre	d to in l	_PO I	§ 22	II Nr. 3 b)						
10-I=AKIT-232-m01		ed Topic	s in Inter	net Te	chnologies						
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V (2)	V (2) + Ü (2)						
	Method of assessment			 a) written examination (approx. 60 to 120 minutes) or b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus 							
	Additio	nal Info	ormation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT.							
	Referred to in LPO I			§ 22 II Nr. 3 b)							
10-I=A-	Selecte	ed Topic	s in Intel	ligent	igent Systems						
KIS-232-m01	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V (2)	+ Ü (2)						
	Method	d of ass	essment	 a) written examination (approx. 60 to 120 minutes) or b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus 							
				Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): KI							
	Additio	nal Info	ormation	Focus	ses available for	students of the Master's	programme Informati	ik (Computer Science, 12	o ECTS credits): Kl		

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10-I=A-	Sel	ected	d Topic	s in Embe	edded Systems						
KES-232-m01	ECT	S !	5	Duratio	า	1 semester	Method of grading n	umerical grade	Modul level	graduate	
	C οι	ırses			V (2) ·	+ Ü (2)					
	Method of assessment				 a) written examination (approx. 60 to 120 minutes) or b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus 						
	Add	dition	al Info	rmation	Focus	es available for stu	dents of the Master's pr	ogramme Informatik ((Computer Science, 120	ECTS credits): ES.	
	Ref	erred	to in L	.PO I	§ 22	I Nr. 3 b)					
10-I=STM-162-m01	NLF	P and	Text N	Nining							
	ECT	S !	5	Duration	า	1 semester	Method of grading n	umerical grade	Modul level	graduate	
	Courses		<u>.</u>	V (2) ·	+ Ü (2)	· · ·					
	Method of assessment			essment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English						
	Add	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, IT, HCI.						
	Ref	Referred to in LPO I			§ 22 II Nr. 3 b)						
10-I=AKL-			d Topic	s in Aeros	space Engineering						
R-232-m01	ECT	IS I	5	Duration		1 semester	Method of grading n	umerical grade	Modul level	graduate	
		urses			V (2) + Ü (2)						
	Method of assessment				 a) written examination (approx. 60 to 120 minutes) or b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus 						
	Add	dition	ial Info	rmation	Focus	es available for stu	dents of the Master's pr	ogramme Informatik ((Computer Science, 120	ECTS credits): LR.	
	Ref	erred	to in L	.PO I	§ 22	l Nr. 3 b)					

10-I=AKH-	Selected Topics in HCI											
Cl-232-m01	ECTS	5	Duration	n 1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	s		V (2) + Ü/S (2)		•						
	Methoo	d of ass	essment	 a) written examination (approx. 60 to 120 minutes) or b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus 								
	Additio	nal Info	ormation	Focuses available for	students of the Master's	programme Informatik	(Computer Science, 12	o ECTS credits): HCI.				
	Referre	d to in l	LPO I	§ 22 Nr. 3 b)								
10-I=AKDS-232-	Selecte	ed Topic	cs in Data	Science								
m01	ECTS	5	Duration	n 1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			V (2) + Ü (2) Module taught in: German and/or English								
				 b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus 								
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): KI								
	Referred to in LPO I			§ 22 II Nr. 3 b)								
10-I=A-	Selected Topics in Autonomous Mobile Systems											
KAMS-232-m01	ECTS	5	Duration	n 1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			V (2) + Ü (2) Module taught in: German and/or English								
	Method of assessment			 a) written examination (approx. 60 to 120 minutes) or b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus 								
	Additio	nallafa		Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): LR, ES, KI.								
	Additio	matimic	ormation	Focuses available for	students of the Master's	programme Informatik	(Computer Science, 12	o ECTS credits): LR, ES, KI.				

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10-I=AKII-232-m01	Selected Topics in Computer Science											
	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses	5		V (2) ·	+ Ü/S (2)	· ·		-				
	Method	of asse		 a) written examination (approx. 60 to 120 minutes) or b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus 								
	Referred	d to in L	PO I	§ 22	ll Nr. 3 b)							
10-I=TSD-232-m01	Telecom	nmunic	ation Syst	tems								
	ECTS	10	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses	5			+ Ü (2) ıle taught in: Gerr	man and/or English						
				If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus								
	Addition	nal Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): LR								
	Referred to in LPO I			§ 22 II Nr. 3 b)								
10-I=RRS-232-m01		Sensin	ıg									
	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses	5		V (2) + Ü (2) Module taught in: German and/or English								
	Method	of asse		written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus								
				possible majors for MA 120 Computer Science: LR,IN								
	Addition	nal Info		possi		A 120 Computer Science: LR,IN						

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10-l=QC-221-m01	Quantum Com	municatio	ons							
	ECTS 5	Duratior	า	1 semester	Method of grading numerical	l grade	Modul level	graduate		
	Courses			V (2) + V (2) Module taught in: English						
	Method of ass	essment	written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: English creditable for bonus							
	Additional Info	ormation	Focus	es available for stu	lents of the Master's programm	e Informatik (Comp	uter Science, 120	ECTS credits): LR		
10-I=DRLOC-221-	Deep Reinforc	ement Lea	rning	for Optimal Control						
m01	ECTS 5	Duratior	I	1 semester	Method of grading numerical	l grade	Modul level	graduate		
	Courses			+ Ü (2) le taught in: Englisł						
	Method of ass		written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: English creditable for bonus							
10-xtAl=CV-202-	Computer Vision									
m01	ECTS 5	Duration		1 semester	Method of grading numerical	l grade	Modul level	graduate		
	Courses		V (2) + Ü (2) Module taught in: English							
	Method of ass	essment	lf ann of one date). Langu	ounced by the lectu e candidate each (a	oprox. 20 minutes) or an oral ex			replaced by an oral examination 5 (approx. 15 minutes per candi-		
10-I=M-	Modeling and	Simulatio	on of Smart Energy Systems							
SIE-232-m01	ECTS 5	Duratior	ו	1 semester	Method of grading numerical	l grade	Modul level	graduate		
	Courses		V (2) ·	+ Ü (2)						
	Method of ass		written examination (approx. 90 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). creditable for bonus							
	Additional Info	ormation	Focus	es available for stu	lents of the Master's programm	e Informatik (Comp	uter Science, 120	DECTS credits): IN		

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10-I=NA-	Sustai	nable M	lobility		a 							
MO-232-m01	ECTS	5	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	Courses			+ Ü (2)							
	Metho	d of ass	sessment	written examination (approx. 90 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). creditable for bonus								
	Additio	onal Info	ormation	Focus	es available for stu	dents of the Master's	programme Informatik (Co	mputer Science, 120	o ECTS credits): IN			
	Referre	ed to in	LPO I	§ 22	l Nr. 3 b)							
10-I=MLN1-232-	Machi	ne Learı	ning for No	etwork	S 1							
m01	ECTS	5	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	IS			V (2) + Ü (2) Module taught in: English							
	Method of assessment			written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: English creditable for bonus								
	Additio	onal Info	ormation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,IT,SE,KI,HCI,IN								
	Referre	Referred to in LPO I			§ 22 II Nr. 3 b)							
10-I=MLN2-232-			ning for N	tworks 2								
m01	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	!S		V (2) + Ü (2) Module taught in: English								
	Metho	d of ass	sessment	written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: English creditable for bonus								
	Additio	onal Info	ormation	Focus	es available for stu	dents of the Master's	programme Informatik (Co	mputer Science, 120	o ECTS credits): AT,IT,SE,KI,HCI,IN			
	Referre	ed to in	LPO I	§ 22	l Nr. 3 b)							

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10-l=SNA-232-m01	Statistical Net	work Ana	Statistical Network Analysis										
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses	_	V (2) + Ü (2)										
				le taught in: English									
	Method of asso	essment			rox. 60 to 120 minute		vamination may be	replaced by an oral examination					
			If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-										
			date).										
				lage of assessment: able for bonus	English								
	Additional Info	rmation			lents of the Master's	programme Informatik (Co	mputer Science, 120	p ECTS credits): IN					
10-l=IP-222-m01				ational Photograph		<u>p </u>							
	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses	1	V (2) ·	ι + Ü (2)		3		10					
		_	Modu	le taught in: English	1								
	Method of asso	essment			rox. 60 to 120 minute								
								replaced by an oral examination					
				of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date).									
			Language of assessment: English										
				able for bonus									
	Referred to in L	_	-	I Nr. 3 b)									
10-I=RLCD- M-232-m01				omputational Decis									
101-232-11101	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses		V (2) + Ü (2) Module taught in: German and/or English										
	Method of ass	accmont	written examination (approx. 60 to 120 minutes)										
		cosment	If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination										
			of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-										
				date).									
			Language of assessment: German and/or English creditable for bonus										
10-l=MIR-232-m01	Music Informa	tion Retri					1						
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses			- + Ü (2)	•			-					
				le taught in: Germa	-								
	Method of asso	essment	a) written examination (approx. 60 to 120 minutes) or										
			b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes)										
			Langu	Language of assessment: German and/or English									
			credit	able for bonus	_								
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10-l=0R-232-m01	Operations Research											
	ECTS	5	Duratior	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			V (2) + Ü (2)							
				Module taught in: German and/or English								
	Methoo	l of ass	essment	If ann of one date). Langu credit	written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus							
	Additio	nal Info	ormation	Focus	es available for stu	dents of the Master's	programme Informatik	k (Computer Science, 120	o ECTS credits): IN			
	Referred to in LPO I			-	I Nr. 3 b)							
10-I=AK-	Selecte	ed Topio	s in Com	outer S	cience and Sustain	ability						
NA-232-m01	ECTS	5	Duratior	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			V (2) + Ü (2) Module taught in: German and/or English								
	Method of assessment			 a) written examination (approx. 60 to 120 minutes) or b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus 								
	Additio	nal Info	ormation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IN								
	Referre	d to in I	LPO I	§ 22 II Nr. 3 b)								
10-I=M-	Multili	ngual N	LP									
NLP-232-m01	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (2) + Ü (2) Module taught in: German and/or English								
	Methoo Referre		essment PO I	written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus § 22 II Nr. 3 b)								

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10-I=ES-231-m01	Embed	ded Sys	stems								
	ECTS	5	Duratio	n	1 semester	Method of grading	g numerical grade	Modul level	graduate		
	Course	S			+ Ü (2) Ile taught in: Gerr	man and/or English					
	Methoc	l of ass	essment	If ann of one date) Langu	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus						
			ormation		ses available for s ,ES,LR,GE	students of the Master	's programme Informati	k (Computer Science, 12	o ECTS credits):		
	Referre	d to in I	LPO I	§ 22	l Nr. 3 b)						
10-I=V-		Prototy	ping of E	mbedd	led Systems						
PES-232-m01	ECTS	5	Duratio		1 semester	Method of grading	g numerical grade	Modul level	graduate		
	Course	S			V (2) + Ü (2) Module taught in: German and/or English						
	Method of assessment			If ann of one date) Langu credit	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus						
	Additio	nal Infc	ormation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): ES							
	Referre	d to in I	LPO I	§ 22 II Nr. 3 b)							
Projects and Tarini	ng										
10-I=RSE-182-m01	Space S	System	s Design								
	ECTS	10	Duratio	n	1 semester	Method of grading	g numerical grade	Modul level	graduate		
	Courses	s		R (6)							
	Method of assessment			project report (10 to 15 pages) and presentation of project (15 to 30 minutes) Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered (The project will not be repeated; there will not be another project with the same topic. Assessment can, therefore, only be offered for the project offered in the respective semester.)							
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): LR. Cf. Section 3 Subsection 3 Sentence 8 FSB (subject-specific provisions).							

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10-I=EPB-182-m01	Design of Planetary Bases and Orbital Stations										
	ECT:	5 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Cou	rses		R (6)	R (6)						
	Met	hod of a	ssessment				n of project (15 to 30 mi				
				Each project is offered one time only. The project will not be repeated; there will not be another project with the same topic.							
					Assessment can, therefore, only be offered for the project offered in the respective semester. Language of assessment: German and/or English						
				Assessment offered: In the semester in which the course is offered							
	Add	itional Ir	nformation				programme Informatik (bject-specific provisions		ECTS credits): LR.		
10-I=PRT-232-m01	Prac	tical co	urse - Space	Techn	ology						
	ECT	5 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Cou	rses		P (8) Modu	le taught in: Germa	an and/or English					
	Method of assessment			placement report (10 to 15 pages) and presentation of results (15 to 30 minutes) Language of assessment: German and/or English							
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): LR Cf. Section 3 Subsection 3 Sentence 8 FSB (subject-specific provisions).							
10-I=FZB-182-m01	Airc	raft Con	struction								
	ECT:	5 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Cou	rses		R (6)							
	Method of assessment			project report (10 to 15 pages) and presentation of project (15 to 30 minutes) Language of assessment: German and/or English creditable for bonus							
	Add	itional lr	nformation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): LR.							
				Cf. Section 3 Subsection 3 Sentence 8 FSB (subject-specific provisions).							
10-I=F-	Flig	ht Simul	ator								
SIM-232-m01	ECT	5 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Cou	rses		R (6)							
	Method of assessment			Separ Langu	project report (10 to 15 pages) and presentation of project (15 to 30 minutes) Separate written examination for Master's students. Language of assessment: German and/or English creditable for bonus						
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): LR. Cf. Section 3 Subsection 3 Sentence 8 FSB (subject-specific provisions).							

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10-I=GRL-	Game Researc	Game Research Lab - Theory										
T-182-m01	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		R (4)	•								
	Method of asso	essment	project report (10 to 15 pages) and presentation of project (15 to 30 minutes) Language of assessment: German and/or English creditable for bonus									
	Additional Info	rmation		Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): GE. Cf. Section 3 Subsection 3 Sentence 8 FSB (subject-specific provisions).								
10-I=GRAR-182-	Game Researc	h Lab - Ar	chitect	hitectures								
m01	ECTS 10	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		R (4)									
	Method of ass	essment	Langu		ages) and presentatic t: German and/or Eng	n of project (15 to 30 m ish	ninutes)					
	Additional Info	ormation				programme Informatik bject-specific provisior	(Computer Science, 12 ns).	o ECTS credits): GE.				
10-I=GRDE-182-	Game Researc	h Lab - De	esign									
m01	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		R (4)	R (4)								
	Method of asso	essment	project report (10 to 15 pages) and presentation of project (15 to 30 minutes) Language of assessment: German and/or English creditable for bonus									
	Additional Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): GE. Cf. Section 3 Subsection 3 Sentence 8 FSB (subject-specific provisions).									
10-I=GRAP-182-	Game Researc	h Lab - Ap	plicati	ions								
m01	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	-	R (4)									
	Method of asso	essment	project report (10 to 15 pages) and presentation of project (15 to 30 minutes) Language of assessment: German and/or English creditable for bonus									
	Additional Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): GE. Cf. Section 3 Subsection 3 Sentence 8 FSB (subject-specific provisions).									
10-I-PAT1-182-m01	Practical Cours	se - Algor	ithms a	and Theory 1								
	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		R (6)									
	Method of assessment		Langu	report (10 to 15 pages) and presentation of results (15 to 30 minutes) Language of assessment: German and/or English creditable for bonus								
	Additional Info	rmation	Focus	es available for stu	udents of the Master's	programme Informatik	(Computer Science, 12	o ECTS credits): AT.				
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10-I-PAT2-182-m01	Practi	cal Cour	se - Algor	ithms	and Theory 2						
	ECTS	10	Duratio	n	1 semester	Method of grading num	erical grade	Modul level	undergraduate		
	Course	es		R (6)							
	Metho	od of ass	essment	Langu	report (10 to 15 pages) and presentation of results (15 to 30 minutes) Language of assessment: German and/or English creditable for bonus						
	Additi	onal Info	rmation	Focus	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT.						
10-I-PSE1-182-m01	Practi	cal Cour	se - Softw	are En							
	ECTS	10	Duratio	n	1 semester	Method of grading num	erical grade	Modul level	undergraduate		
	Course	es		R (6)	•			•			
	Metho	od of ass	essment	Langu		d presentation of results (: German and/or English	15 to 30 minutes)				
	Additi	onal Info	ormation	Focus	cuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE.						
10-I-PSE2-182-m01	Practi	cal Cour	se - Softw	are En	are Engineering 2						
	ECTS 10 Duratio		n	1 semester	Method of grading num	erical grade	Modul level	undergraduate			
	Courses			R (6)	R (6)						
	Method of assessment		report (10 to 15 pages) and presentation of results (15 to 30 minutes) Language of assessment: German and/or English creditable for bonus								
	Additi	onal Info	rmation	Focus	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE.						
10-I-PIT1-182-m01	Practi	cal Cour	se - Interr	et Technology 1							
	ECTS	10	Duratio	n	1 semester	Method of grading num	erical grade	Modul level	undergraduate		
	Course	es		R (6)							
	Method of assessment			report (10 to 15 pages) and presentation of results (15 to 30 minutes) Language of assessment: German and/or English creditable for bonus							
	Additi	onal Info	ormation	Focus	es available for stu	dents of the Master's prog	ramme Informatik (Co	omputer Science, 12	o ECTS credits): IT.		
10-I-PIT2-182-m01	Practi	cal Cour	se - Interr	et Tec	hnology 2						
	ECTS	10	Duratio	n	1 semester	Method of grading num	erical grade	Modul level	undergraduate		
	Course	es		R (6)	R (6)						
	Method of assessment			Langu	report (10 to 15 pages) and presentation of results (15 to 30 minutes) Language of assessment: German and/or English creditable for bonus						
	Additi	onal Info	ormation	Focus	es available for stu	dents of the Master's prog	ramme Informatik (Co	omputer Science, 12	o ECTS credits): IT.		

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10-I-PIS1-212-m01	Practical Course - Intelligent Systems 1									
	ECTS 10 Duration		n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	ourses R (6)								
	Metho	od of ass	essment	report (10 to 15 pages) and presentation of results (15 to 30 minutes) Language of assessment: German and/or English creditable for bonus						
	Additi	onal Info	rmation	Focus	es available for stud	lents of the Master's	programme Informatik ((Computer Science, 12)	o ECTS credits): KI	
10-I-PIS2-212-m01	Practi	cal Cour	se - Intell	igent S	iystems 2		·			
	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Course	es		R (6)	•			•	-	
	Method of assessment		essment	Langu		d presentation of res German and/or Engl				
	Additi	onal Info	ormation	Focus	es available for stud	lents of the Master's	programme Informatik ((Computer Science, 12	o ECTS credits): KI	
10-I-PES1-182-m01	Practi	cal Cour	se - Embe	dded S	iystems 1					
	ECTS 10 Duratio		n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	Courses								
	Method of assessment		report (10 to 15 pages) and presentation of results (15 to 30 minutes) Language of assessment: German and/or English creditable for bonus							
	Additional Information		Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): ES.							
10-I-PES2-182-m01	Practi	cal Cour	se - Embe	dded S	ystems 2					
	ECTS 10 Duratio		Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Course	es		R (6)						
	Metho	od of ass	essment	report (10 to 15 pages) and presentation of results (15 to 30 minutes) Language of assessment: German and/or English creditable for bonus						
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): ES.						
10-I-PHCl1-182-	Practi	cal Cour	se - Huma	n Com	n Computer Interaction 1					
m01	ECTS	10	Duratio	n 1 semester		Method of grading	numerical grade	Modul level	undergraduate	
	Course	es		R (6)	7					
	Metho	d of ass	essment	Langu		d presentation of res German and/or Engl	ults (15 to 30 minutes) ish			
	Additional Information			Focus	es available for stud	lents of the Master's	programme Informatik ((Computer Science, 12)	o ECTS credits): HCI.	

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10-I-PHCl2-182-	Practical C	ourse -	Humai	n Com	puter Interaction 2					
m01	ECTS 10 Duration			1	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses			R (6)				•	•	
	Method of	assessi					ults (15 to 30 minutes)			
						German and/or Engl	ish			
				creditable for bonus Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): HCI.						
						dents of the Master's	programme informatik (Compu	iter Science, 120	DECTS credits): HCI.	
10-I-EHL1-212-m01					ing Lab / Software					
	ECTS 10	Di	uration		1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses			R (6) Modu	le taught in: English	I				
	Method of	assessi				rox. 60 to 120 minute	s) and report (5 to 8 pages), we	eighted: written	examination: 100%; The report	
					as to be passed		£ 4 h a a a a a a a a a a a a a a a a a a			
									replaced by an oral examination 5 (approx. 15 minutes per candi-	
				date).						
				Language of assessment: English						
				creditable for bonus						
	Additional Information Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SEC									
10-I-EHL2-212-m01	Practical Course - Ethical Hacking Lab / Networks									
	ECTS 10	Du	uration		1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses			R (6) Modu	le taught in: English	1				
	Method of	assessi	ment	written examination (approx. 60 to 120 minutes) and report (5 to 8 pages), weighted: written examination: 100%; The report						
				just has to be passed						
				If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-						
				date).						
				Language of assessment: English						
				creditable for bonus						
	Additional	Informa	ation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SEC						
10-I=PDS1-232-	Practical C	ourse -	Data S	cience 1						
m01	ECTS 10	Dı	uration	1	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses			R (6)						
	Method of	assessi					ults (15 to 30 minutes)			
				•	Language of assessment: German and/or English creditable for bonus					

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10-I=PDS2-232-	Practical Course - Data Science 2								
m01	ECTS 10	Duratio	n	1 semester	Method of grading nume	erical grade	Modul level	graduate	
	Courses		R (6)						
	Method of ass	essment	Langu		nd presentation of results (1 : German and/or English	5 to 30 minutes)			
10-I=PIN1-232-m01	Practical Cours	se - Comp	uter S	cience and Sustain	ability 1				
	ECTS 10	Duratio	n	1 semester	Method of grading nume	erical grade	Modul level	graduate	
	Courses		R (6)						
	Method of ass	essment	Langu		nd presentation of results (1 : German and/or English	5 to 30 minutes)			
	Additional Info	rmation	Focus	es available for stu	dents of the Master's progra	amme Informatik (Con	nputer Science, 12	o ECTS credits): IN	
10-I=PIN2-232-	Practical Cours	se - Comp	uter S	cience and Sustain	ability 2				
m01	ECTS 10	Duratio	n	1 semester	Method of grading nume	erical grade	Modul level	graduate	
	Courses		R (6)						
	Method of ass	essment	report (10 to 15 pages) and presentation of results (15 to 30 minutes) Language of assessment: German and/or English creditable for bonus						
	Additional Information Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IN								
10-I=TEL-232-m01	Telecommunic	ation Sys	stems Lab						
	ECTS 10 Duratio		n	1 semester	Method of grading nume	erical grade	Modul level	graduate	
	Courses		R (8) Module taught in: German and/or English						
	Method of asso	essment	a) oral examination of one candidate each (approx. 20 minutes) or b) oral examination in groups (max. 3 candidates, approx. 15 minutes each) or c) report (4 to 8 pages) Language of assessment: German and/or English						
	Additional Info	rmation	Focus	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): LR					
10-LURI=R-	Radar Signal P	rocessin	g						
SP-232-m01	ECTS 5	Duratio		1 semester	Method of grading nume	erical grade	Modul level	graduate	
	Courses		V (2) + Ü (2) Module taught in: German and/or English						
	Method of asso	essment	If ann of on date) Langu	written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus					

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10-I=PCV-232-m01	Practical Computer Vision										
	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		R (8) Modu	lle taught in: Gerr	nan and/or English		·			
	Method of assessment			b) wri If ann of on date) Langu	 a) placement report (10 to 15 pages) and presentation of results (15 to 30 minutes) or b) written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus 						
	Additio	onal Info	ormation	Focus	ses available for s	tudents of the Master's p	orogramme Informatik	(Computer Science, 120	o ECTS credits): KI,LR;HCI		
10-I=PIP-232-m01	Image	Proces	sing and C	Compu	tational Photogra	iphy Lab					
	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		R (8) Modu	R (8) Module taught in: German and/or English						
			sessment	a) placement report (10 to 15 pages) and presentation of results (15 to 30 minutes) or b) written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus							
Thesis (30 ECTS cr											
10-I-MA-MK-212-	Concluding Colloquium Computer Science										
m01		5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course			K (o)							
				final colloquium (approx. 60 minutes) Language of assessment: German and/or English							
10-I-MA-161-m01	Master	's Thes	sis Compu	ter Science							
	ECTS 25 Duratio				1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course				ourses assigned to						
	Methoo	d of ass	sessment		er's thesis (50 to uage of assessme	100 pages) ent: German and/or Engli	sh				
				Time to complete: 6 months							