

Annex SFB

Studienfachbeschreibung (subject description, SFB) for the subject **Computer Science**

with the degree "Erweiterungsprüfung für das Lehramt an Gymnasien" (ECTS credits)

Responsible: Faculty of Mathematics and Computer Science

Responsible: Institute of Computer Science

Examination regulations version: 2025

Examination regulations version: 2025

Abbreviations used: Course types: $\mathbf{E} = \text{field trip}$, $\mathbf{K} = \text{colloquium}$, $\mathbf{O} = \text{conversatorium}$, $\mathbf{P} = \text{placement/lab course}$, $\mathbf{R} = \text{project}$, $\mathbf{S} = \text{seminar}$, $\mathbf{T} = \text{tutorial}$, $\mathbf{U} = \text{exercise}$, $\mathbf{V} = \mathbf{V} = \mathbf$

= 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

Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not cre-

modules in this SFB: ditable for bonus.

Information on Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the meassessment procedures: 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:

LASP02015

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

23-Jul-2025 (2025-61)

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	Module title										
	ECTS		Duration	(in semesters)	Method of grading		Module level					
	Courses		To be spe	o 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	ssessm	ent									
	Only after su completion of		ıl if applica	if applicable								
	Other prereq	uisites	if applica	if applicable								
	Participants on of places		ocati- if applica	if applicable								
	Additional information		ion if applica	if applicable								
	Referred to in	n LPO I	if applica	if applicable (examination regulations for teaching-degree programmes)								

Scientific Disciplin	e (92 ECTS cro	edits)									
Area 1 (60 ECTS cre	edits)										
10-I-GdP-172-m01	Fundamenta	ls of Progra	mming	nming							
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V (2) +	/ (2) + Ü (2)							
	Method of as	ssessment	If anno of one date).	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). creditable for bonus							
	Referred to i	n LPO I		49 Nr. 1 b) 69 Nr. 1 b)							
10-I-DB-152-m01	Databases										
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V (2) +	Ü (2)							
	Method of a	ssessment	If anno of one date). Langua	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 examof one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes pedate). Language of assessment: German and/or English creditable for bonus							
	Referred to in LPO I		§ 49 Nr. 1 b) § 69 Nr. 1 b)								
10-I-SE-252-m01	Software En	gineering					'				
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V (2) +	Ü (2)							
	Method of a	ssessment	If anno of one date). credita	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). creditable for bonus							
	Referred to i	n LPO I	§ 49 I § 69 I	Nr. 1 b) Nr. 1 b)							

10-I-ADS-152-m01	Algorit	hms an	d data str	ucture	 S						
	ECTS	10	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V (4)	+ Ü (2)						
	Method	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 candidate). If a contract the contract is a contract to the course of the c						
	Referre	d to in I	LPO I		Nr. 1 a) Nr. 1 a)						
10-I-PP-191-m01	Practic	al Cour	se in Prog	rammi	ng			·			
	ECTS	10	Duration	า		Method of grading	(not) successfully completed	Modul level	undergraduate		
	Course	S		P (6)							
	Method of assessment			If ann	practical examination (programming exercises, approx. 240 hours) and 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).						
	other p	other prerequisites			Intended learning outcomes of the following module are required: 10-I-GdP. It is therefore strongly recommended to complete this before.						
	Referred to in LPO I			§ 49 Nr. 1 c) § 69 Nr. 1 d)							
10-I-SWP-252-m01	Practical course in software										
	ECTS	10	Duration	ı	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Course	S		P (6)	P (6)						
	Method	d of ass	essment		practical project (Completion of a larger software project in groups (approx. 300 hours per person) and final presentation (approx. 10 minutes per group)						
	Modules successfully completed			10-I-PP, 10-I-SE							
	other prerequisites			In addition, the knowledge and skills acquired in module 10-I-ADS are required. Prior attendance of this module is therefore highly recommended.							
	Referre	d to in I	LPO I	§ 69	Nr. 1 d)						

10-l-Tl-242-m01	Theory of Computation											
	ECTS	10	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	!S		V (4)	+ Ü (2)	, 5	<u> </u>	ļ				
	Method	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 candidate). creditable for bonus							
	Referred to in LPO I				§ 49 Nr. 1 a) § 69 Nr. 1 a)							
10-l-Kl-252-m01	Artifici	al Intell	igence									
	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses				+ Ü (2) ıle taught in: Germ	an and/or English						
	Wethor	Method of assessment			written examination (approx. 60 to 120 minutes) or 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							
	Referre	ed to in	LPO I	§ 22 Nr. 3 b) § 69 Nr. 1 b)								
Area 2 (12 ECTS cro	edits)											
Technical Compute	er Scienc	e (10 E0	TS credit	s)								
10-I-BS-242-m01	Operat	ing Sys	tems									
	ECTS	5	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	!S		V (2)	+ Ü (2)							
	Method of assessm				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 ex of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes date). Language of assessment: German and/or English creditable for bonus							
	Referred to in LPO I			§ 22 l	II Nr. 3 b), § 69 I Nr	. 1 C)						

10-I-RAK-152-m01	Computer Architecture										
	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Course	S		V (2) -	+ Ü (2)						
	Method	d of ass	essment	If ann of one date).	ounced by the lece e candidate each	oprox. 60 to 120 minutes). turer at the beginning of the course, the written exa (approx. 20 minutes) or an oral examination in group nt: German and/or English					
	Referre	d to in I	-		§ 22 II Nr. 3 b) § 69 I Nr. 1 c): Rechnerarchitektur						
10-I-RAL-252-m01	Digital	comput	er systen	15	'		'				
	ECTS	ECTS 10 Duration		1	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Course	S		V (4) -	+ Ü (2)						
L	Method	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 candidate). creditable for bonus						
	Referred to in LPO I		§ 22 Nr. 3 b), § 69 Nr. 1 c)								
10-l-RIÜ-191-m01	Compu	ter Netv	vorks and	Inforn	nation Transmissi	ion					
	ECTS	10	Duration	1	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Course	S		V (4) -	+ Ü (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 candidate). creditable for bonus							
	Referred to in LPO I			§ 22 l	l Nr. 3 b), § 69 l N	r. 1 c)					

General Compulso	ry Electives (22 ECTS cred	lits)								
10-I-RAK-152-m01	Computer A	Architecture									
	ECTS 5	Duratio	n 1 semester	Method of grading	g numerical grade	Modul level	undergraduate				
	Courses		V (2) + Ü (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 candidate). Language of assessment: German and/or English creditable for bonus								
	Referred to	in LPO I	§ 22 II Nr. 3 b) § 69 I Nr. 1 c): Rec	3 22 II Nr. 3 b) 3 69 I Nr. 1 c): Rechnerarchitektur							
10-I-RAL-252-m01	Digital com	puter syster	ns								
	ECTS 10	Duratio	n 1 semester	Method of grading	g numerical grade	Modul level	undergraduate				
	Courses		V (4) + Ü (2)								
	Method of a	assessment	If announced by the of one candidate of date). creditable for bonders.	creditable for bonus							
	Referred to	in LPO I	§ 22 II Nr. 3 b), § 6	9 Nr. 1 c)							
10-l-RIÜ-191-m01	Computer Networks and Information Transmission										
	ECTS 10	Duratio	n 1 semester	Method of grading	g numerical grade	Modul level	undergraduate				
	Courses		V (4) + Ü (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 candidate). creditable for bonus								
	Referred to	in LPO I	§ 22 II Nr. 3 b), § 6	9 Nr. 1 c)							
10-l-BS-242-m01	Operating :	Systems				'					
	ECTS 5	Duratio	n 1 semester	Method of grading	g numerical grade	Modul level	undergraduate				
	Courses		V (2) + Ü (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 candidate). Language of assessment: German and/or English creditable for bonus								
	Referred to	in LPO I	§ 22 II Nr. 3 b), § 6	9 Nr. 1 c)							
Computer Science (2025)				JMU Würzburg • generated	i 17-Nov-2025 • exam. reg. data re	ecord E5 079 - - H 2025 page 7 / 37				

10-I-HWP-152-m01	Practical course in hardware											
	ECTS	10	Duration	1	1 semester	Method of grading	(not) successfully complete	ed Modul level	undergraduate			
	Courses	5	•	P (6)	⁷ (6)							
	Method	l of asso	essment		portfolio: completion of approx. 3 to 10 project assignments (approx. 250 hours total) and presentation of results (approx. 10 minutes per project)							
	Referre	d to in L	PO I	§ 22 l	22 Nr. 3 b)							
10-l-LOG-152-m01	Logic fo	r inforr	natics									
	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	5	-	V (2)	+ Ü (2)							
				If ann of one date) Langu credit	ritten examination (approx. 60 to 120 minutes). announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination f one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candiate). anguage of assessment: German and/or English reditable for bonus							
	Referre	d to in L	.PO I	§ 22 l	§ 22 II Nr. 3 b)							
10-l-AGT-152-m01	Algorithmic Graph Theory											
	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	5		V (2)	+ Ü (2)							
	Method	l of asso	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 candidate). Language of assessment: German and/or English creditable for bonus								
	Referre	d to in L	PO I	§ 22 l	Nr. 3 b)							
10-l-lCG-152-m01	Interact	tive Cor	nputer Gr	aphics		,						
	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	5		V (2) + Ü (2)								
	Method	l of asso	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 candidate). Language of assessment: German and/or English creditable for bonus								
	Referre	d to in L	PO I	§ 22 l	l Nr. 3 b)							

10-I-APR-172-m01	Advanc	ed Prog	gramming				,				
	ECTS	5	Duration	ı	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses	5		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 candidate). Language of assessment: German and/or English creditable for bonus						
	Referre				l Nr. 3 b)						
10-I-KT-191-m01		tationa	Complex	ity							
	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses	5		V (2)	+ Ü (2)						
	Referred to in LPO I			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 Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus							
				§ 22 II Nr. 3 b)							
10-I-KD-191-m01	Cryptog	graphy	and Data	Securi	ty						
	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses				+ 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 candidate). 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							
	Referre	d to in l	PO I	§ 22 l	l Nr. 3 b)						

10-I-MSE-252-m01	Model-	based S	Systems E	ngine	ering			,				
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	S		V (2)	+ Ü (2)	,						
	Method	of ass		written examination (approx. 60 to 120 minutes).								
				If ann	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-							
				of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate).								
					creditable for bonus							
	Referre	d to in L	_PO I	§ 22 l	22 II Nr. 3 b)							
10-l-3D-152-m01	3D Poin	nt Cloud	l Processi	ng				,				
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	S	,	V (2)	+ Ü (2)	•		•				
	Method	of ass	essment			prox. 60 to 120 minut						
				If ann	ounced by the lect	urer at the beginning	of the course, the written	examination may be	replaced by an oral examination			
				of one	of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidates)							
				date). Language of assessment: German and/or English								
				creditable for bonus								
	Referre	d to in L	_PO I	§ 22 l	l Nr. 3 b)							
10-LURI=PHO-	Photogrammetric Machine Vision											
TO-232-mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	S		V (2) + Ü (2) Module taught in: German and/or English								
	Method	d of asso	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							
					table for bonus							
L DI	Referre				I Nr. 3 b)	_						
10-I-RK-212-m01					Communication Sys			M = d = 1 = - = 1	Lundaninadia			
	-	5	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses				+ Ü (2)		`					
	Method	of asso	essment			prox. 60 to 120 minut		examination may be	renlaced 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).								
				Language of assessment: German and/or English								
				creditable for bonus								
	Referre	a to in L	_PU I	3 22 I	I Nr. 3 b)		,	-				

10-I-SEM1-152-m01	Semina	ar - Sele	ected Topi	cs in C	omputer Science 1	I.	1	-				
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	S	,	S (2)		·						
	Method	d of ass	essment	written elaboration (approx. 10 to 15 pages) and presentation (approx. 30 to 45 minutes) with subsequent discussion on a to-								
				pic from the field of computer science Language of assessment: German and/or English								
	D - C	J 4 - 1 - 1	1.00.1									
1.007	Referre			§ 22 II Nr. 3 b)								
10-I-PV-252-m01	Project		_			Mathadaf wadina www.siaalawada	Madulland	Lunda verra du ata				
		2	Duratio		1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course			S (3)								
	Method	or ass	essment	Prese	ntation of a self-de	eveloped project analogous to a trade fair prese	entation for computer	science laypersons with discussi-				
				Langu	on (approx. 10 to 15 minutes) Language of assessment: German and/or English							
					able for bonus	, 3						
	Referred to in LPO I		§ 22 l	§ 22 II Nr. 3 b)								
10-LU-	Autono	mous N	Mobile Sy:	stems	ems							
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 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): IT, KI, ES, LR, GE								
	Referre	d to in	LPO I	§ 22 II Nr. 3 b)								
10-l=EA-252-m01	Exact A	lgorith	ms									
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		$V(2) + \ddot{U}(2)$ 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 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): AT							
	Referred to in LPO I			§ 22 l	l Nr. 3 b)							

10-l=AG-232-m01	Computa	ational Ge	eometry	,							
	ECTS 4	5 Di	uration	1 semester	Method of gradin	g numerical grade	Modul level	graduate			
	Courses		,	V (2) + Ü (2)	•		·	•			
	Method	of assessi		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							
				Focuses available fo AT,HCI,GE,IN	r students of the Master	r's programme Informatik	k (Computer Science, 12	o ECTS credits):			
	Referred	to in LPO	11 [§ 22 II Nr. 3 b)							
10-I=APA-161-m01	Approxir	mation Alક્	gorithm	IS							
	ECTS 4	5 Di	uration	1 semester	Method of gradin	g numerical grade	Modul level	graduate			
	Courses		\	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							
	Addition	al Informa		Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,IT,GE							
	Referred	to in LPO	١١	§ 22 II Nr. 3 b)							
10-I=AUT-212-m01											
	ECTS 4	5 Di	uration	1 semester	Method of gradin	g numerical grade	Modul level	graduate			
	Courses		\	V (2) + Ü (2)				_			
1	Method	of assessi		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 Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus							
	Addition	al Informa	ation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, IT, ES, HCI, GE							
		<u> </u>	ation	i ocuses available io	1 Students of the Master	S programme imomiatii	K (Computer Science, 12	b LC13 cledits). A1, 11, L3, 11c1, GL			

10-l-AR-152-m01	Automa	ation ar	nd Control	Techi	nology	-						
	ECTS	8	Duratio	n n	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	S		V (4)	+ Ü (2)							
	Method	l of ass	essment	If anr 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 candidate). Language of assessment: German and/or English creditable for bonus							
	Referred to in LPO I § 22 II Nr. 3 b)											
10-I-LFS-172-m01	Introdu	Introduction to Aviation Systems										
	ECTS 5 Duratio			1	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	S		V (2)	+ Ü (1)	·		•				
	Method of assessment			If anr	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. 30 minutes). Creditable for bonus							
	Referred to in LPO I			§ 22	II Nr. 3 b)							
10-I-RFS-172-m01	Introduction to Space Systems											
	ECTS 5 Duratio		Duration	1	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	S		V (2)	+ Ü (1)		,					
				If anr	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. 30 minutes). creditable for bonus							
	Referre	d to in I	LPO I	§ 22	§ 22 II Nr. 3 b)							
10-LURI-HWZ-252-	Hardwa	re-orie	nted prog	ramm	ing and Fundamen	tals Avionics	-					
mo1	ECTS	10	Duratio	1	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	S		V (4)	+ Ü (2) + P (2)							
	Method of assessment			written examination (approx. 120 minutes) and practical examination in form of approx. 6 programming exercises (approx. 4 hours each), weighted 1:1 creditable for bonus								
	Referred to in LPO I		§ 22	II Nr. 3 b)								

10-I=TSD-232-m01	Telecommunication Systems												
10-1-130-232-11101	ECTS	10	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course		Duration		+ Ü (2)	Method of glading	numerical grade	Modulitevel	graduate				
	Course.	3			lle taught in: Germa	an and/or English							
	Method	l of ass	essment	If ann	itten examination (approx. 60 to 120 minutes) announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-								
				date) Langu									
	Additio	nal Info	rmation	Focus	ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): LR								
	Referre	d to in I	LPO I	§ 22 l	22 II Nr. 3 b)								
10-l=RRS-232-m01	Remote	Sensi	ng		,			'					
	ECTS				1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S			(2) + Ü (2) Nodule taught in: German and/or English								
	Method	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 examina of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per car date). Language of assessment: German and/or English creditable for bonus								
	Additio	nal Info	rmation	possi	ble majors for MA 1	.20 Computer Science	: LR,IN	,	-				
	Referre	d to in I	LPO I	§ 22 l	l Nr. 3 b)								
10-l-MuS-212-m01	Modeli	ng and	Simulatio	n				'					
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	 S		V (2)	+ Ü (2)			,					
	Method	l of ass	essment	if ann of one date)	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-								
	Referre	d to in I	LPO I	§ 22 l	l Nr. 3 b)								

10-LU-	Satelli	te Imag	e processi	ng									
RI=SBV-232-mo1	ECTS	10	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	S S			$(4) + \ddot{U}(2)$								
		1-		Modu	Module taught in: German and/or English								
	Method	d of ass			ritten 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).								
				date).									
					Language of assessment: German and/or English								
					reditable for bonus								
		d to in l			Nr. 3 b)		,						
10-l=QC-261-m01			municatio										
	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	S			(2) + Ü (2) odule 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									
					ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): LR								
		d to in l	_		Nr. 3 b)								
10-I=DRLIS-			1		for Intelligent Spa								
S-252-m01	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses			V (2) - Modu		nan and/or English							
	Method	d of ass		If ann of one date).	ounced by the lec	oprox. 60 to 120 minutes) cturer at the beginning of the course, the writte (approx. 20 minutes) or an oral examination in nt: German and/or English							

10-l=BER-212-m01	Computability Theory												
	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	S	,	V (2)	+ Ü (2)								
	Method	l of ass		If anr of on date) Langu Asses	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 Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus								
	Additio	nal Info	rmation	Focus	ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,SE,IT,KI,GE								
	Referre		LPO I	§ 22	22 Nr. 3 b)								
10-l=DB2-242-m01		ses 2											
	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	S			V (2) + Ü (2) Module taught in: German and/or English								
	Method	l 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 exami 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 creditable for bonus									
	Additio	nal Info	rmation	Focus	ses available for s	tudents of the Master's programme Informatil	k (Computer Science, 12	o ECTS credits): SE, KI, HCI					
	Referre	d to in I	LPO I	§ 22	II Nr. 3 b)								
10-l=DDB-212-m01	Deduct	ive Dat	abases										
	ECTS	5	Duration	ı	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	S		V (2)	+ Ü (2)								
	Method	l of ass		If anr of on date) Lange	nounced by the le e candidate each	pprox. 60 to 120 minutes) cturer at the beginning of the course, the writt (approx. 20 minutes) or an oral examination i ent: German and/or English							
	Additio	nal Info	rmation	Focus	ses available for s	students of the Master's programme Informatil	k (Computer Science, 12	o ECTS credits): AT,SE,IT,KI					
	Referre	d to in		§ 22 II Nr. 3 b)									

10-l=LP-212-m01	Logic P	Logic Programming												
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	S		V (2)	+ Ü (2)		-		<u></u>					
	Method	l of ass		If anr of on date) Lange	anguage of assessment: German and/or English									
	Additio	nal Inf	ormation		editable for bonus cuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,SE,IT,KI									
	Referre				II Nr. 3 b)	adents of the Muster 5 p	rogramme imormatik	(comparer science, 12						
10-I=ES-231-m01	Embed			3					-					
	-	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	S			+ Ü (2) ıle taught in: Germ	an and/or English		•						
	Wethor	Method of assessment			vritten 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 examin of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per ca date). canguage 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): AT,SE,ES,LR,GE									
	Referre	d to in	LPO I	§ 22 II Nr. 3 b)										
10-l=V-	Virtual	Protot	yping of E	nbedo	led Systems									
PES-232-m01	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	S		V (2) + Ü (2) Module taught in: German and/or English										
	Method	l of ass	sessment	If anr 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 candidate). Language of assessment: German and/or English creditable for bonus									
	Additio	nal Info	ormation	Focus	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): ES									
	Referre	d to in	LPO I	§ 22 l	II Nr. 3 b)									

10-l=SB-252-m01	System	ıs Benc	hmarking									
	ECTS	5	Duration	ı	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (2)	+ Ü (2)							
	Method	d of ass	essment	If ann of one date) Langu	ritten examination (approx. 60 to 120 minutes) fannounced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination fone candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candiate). anguage of assessment: German and/or English reditable for bonus							
	Additio	nal Info	rmation	Focus GE, IN		udents of the Master's programme Informatik (Co	omputer Science, 12	o ECTS credits): SE, IT, ES, HCI,				
	Referre	d to in l	_PO I	§ 22 l	22 II Nr. 3 b)							
10-I-TML-222-m01	Theory	of Mac	hine Learı	ning								
	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	S			V (2) + Ü (2) Module taught in: German and/or English							
	Method	d 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 of date). I anguage of assessment: German and/or English creditable for bonus							
	Referre	d to in l	PO I	§ 22 II Nr. 3 b)								
10-I-DL-222-m01	Deep L	earning										
	ECTS	5	Duration	ı	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	S		V (2)	+ Ü (2)							
	Method	d of ass	essment	If ann of on date)	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). Creditable for bonus							
	Referre	d to in l	PO I	§ 22 l	§ 22 II Nr. 3 b)							

10-I-NLP-222-m01	Natural Language Processing												
		5	Duration		1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Courses		,		+ Ü (2) le taught in: Germar	n and/or English							
	Method	l of ass	essment	If ann of one date). Langu	anguage of assessment: German and/or English creditable for bonus								
	Referre	d to in I	PO I	§ 22 l	22 II Nr. 3 b)								
10-I-CV-222-m01	Comput	ter Visi	on										
	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Courses	S			(2) + Ü (2) Nodule taught in: German and/or English								
	Method	i 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 ora of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minudate). Language of assessment: German and/or English creditable for bonus								
	Referre	d to in I	PO I	§ 22 II Nr. 3 b)									
10-I=NLP-212-m01	Machin	e Learn	ing for Na	atural I	anguage Processin	g							
	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses			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 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): AT,KI,HCI								
	Referre	d to in I	PO I	§ 22 l	l Nr. 3 b)								

10-I=STM-162-m01	NLP an	NLP and Text Mining												
	ECTS	5	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	s	,	V (2) +	Ü (2)			•						
	Method	d of ass	essment	If anno	tten examination (approx. 60 to 120 minutes). Innounced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examinatio one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per cand te)									
					age of assessmen	it: German and/or Engl	ish							
	Additio	nal Info	rmation	Focuse	es available for st	udents of the Master's	programme Informati	k (Computer Science, 12	o ECTS credits): AT, IT, HCI.					
	Referre	d to in l	_PO I	§ 22	22 II Nr. 3 b)									
10-l=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) + Modul	ıle taught in: German and/or English									
	Method	d of ass	essment	If anno of one date). Langua	ritten examination (approx. 60 to 120 minutes) announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination fone candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candiate). anguage of assessment: German and/or English reditable for bonus									
	Referre	d to in l	_PO I	§ 22	22 II Nr. 3 b)									
10-l=NA-	Sustair	nable M	obility											
MO-232-m01	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	S		V (2) +	Ü (2)			•						
		ethod of assessment 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 of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes). creditable for bonus						s (approx. 15 minutes per candi-						
	Additio	nal Info	rmation	Focuse	es available for st	udents of the Master's	programme Informati	k (Computer Science, 12	o ECTS credits): IN					
	Referre	d to in l	o in LPO I § 22 II Nr. 3 b)											
10-l-luE-212-m01	Compu	ter Scie	nce and E	thics										
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Course	S		V/S (2))									
	Method	d of ass	essment	a) written examination (approx. 60 to 120 minutes) or b) term paper (10 to 15 pages) and presentation (30 to 45 minutes) with subsequent discussion Language of assessment: German and/or English										
	Referre	d to in l	PO I	§ 22 II	Nr. 3 b)									

10-Al=ML-242-m01	Machir	ne Learr	ning									
	ECTS	5	Duration	n	1 semester	Method of gradi	ng numerical grade	1	Modul level	graduate		
	Course	S	•		+ Ü (2) ıle taught in: Geri	man and/or English		•				
	Method	d of ass	essment	If ann of on date) Langu	Iritten examination (approx. 60 to 120 minutes) announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination f one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candiate). anguage of assessment: German and/or English reditable for bonus							
		d to in I			I Nr. 3 b)							
10-I=MLN1-232-			ning for No		(S 1							
mo1	ECTS	5	Duratio		1 semester	Method of gradi	ng numerical grade	1	Modul level	graduate		
	Course	S			(2) + Ü (2) Module taught in: English							
	Method of assessment			If ann of on date) Langu	f 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 pe							
	Additio	nal Info	ormation	Focus	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,IT,SE,KI,HCI,IN							
	Referre	d to in I	LPO I	§ 22 l	§ 22 II Nr. 3 b)							
10-l=MLN2-232-		ie Learr	ning for No	etwork	S 2							
mo1	ECTS	5	Duration		1 semester	Method of gradi	ng numerical grade	1	Modul level	graduate		
	Course	S		V (2) + Ü (2) Module taught in: English								
	Method of assessment			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 candidate). Language of assessment: English creditable for bonus							
	Additio	nal Info	ormation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,IT,SE,KI,HCI,IN								
				§ 22 II Nr. 3 b)								

10-I-SNA-222-m01	Statist	ical Net	work Ana	lysis								
	ECTS	5	Duratio	1	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	S			V (2) + Ü (2) Module taught in: German and/or English							
	Method	d of ass	essment	If ann of one date) Langu	vritten 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 candidate). Language of assessment: German and/or English creditable for bonus							
		d to in		_	l Nr. 3 b)		1					
10-l=IP-222-m01		_	sing and C	ompu	tational Photograph	·						
	ECTS	5	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S			(2) + Ü (2) Nodule taught in: English							
	Method	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 p date). Language of assessment: English creditable for bonus							
		d to in		_	§ 22 Nr. 3 b)							
10-I=RLCD-	Reinfo	rcemen	t Learning	and C	omputational Decis	ion Making						
M-252-m01	ECTS	5	Duratio	1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (2) + Ü (2) Module taught in: German and/or English								
	Method	d 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 candidate). Language of assessment: German and/or English creditable for bonus							
	Additio	nal Info	ormation	Focus	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IN							
	Referre	d to in	LPO I	§ 22 l	l Nr. 3 b)	· -	· · ·	_				

10-I=MIR-252-m01	Music II	Music Information Retrieval												
	ECTS	5 I	Duration		1 semester	Method o	of grading nu	merical grade	N	Modul level	graduate			
	Courses	S		V (2) + Modul	Ü (2) e taught in: Gerr	nan and/or E	nglish							
	Method	l of asses		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) Language of assessment: German and/or English creditable for bonus										
	Addition	nal Inforn	nation	Focus	es available for s	tudents of th	e Master's pro	gramme Informat	ik (Compute	r Science, 12	o ECTS credits): GE			
	Referred	d to in LP	01	§ 22	Nr. 3 b)									
10-l=OR-232-m01	Operati	ions Rese	earch											
	ECTS	5 I	Duration		1 semester	Method o	of grading nu	merical grade	Λ	Modul level	graduate			
	Courses	S) + Ü (2) Iule taught in: German and/or English									
	Method	i or asses		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										
	Addition	nal Inforn	nation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IN										
	Referred	d to in LP	01	§ 22 Nr. 3 b)										
10-l=IR-242-m01	Informa	ation Retr	rieval											
	ECTS	5 I	Duration		1 semester	Method o	of grading nu	merical grade	N	Nodul level	graduate			
	Courses	S		V (2) + Modul	Ü (2) e taught in: Gerr	nan and/or E	nglish							
	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 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): IT, KI, HCI, GE									
	Referred	d to in LP	01	§ 22	Nr. 3 b)									

10-l=KT2-212-m01	Computational Complexity II												
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses	5		V (2)	+ Ü (2)		•	•					
	Method	of ass	essment	If anr of on date) Lang 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 candidate). 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	ses available for s	tudents of the Master's programme Informatik	(Computer Science, 12	o ECTS credits): AT, SE, IT, ES					
	Referre	d to in I	LPO I	§ 22	II Nr. 3 b)								
10-l=LVS-232-m01	Perform	ıance E	valuation	of Dis	Distributed Systems								
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses	5		V (2)	(2) + Ü (2)								
	Additional Information			of on date) Lang credi	If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examina of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per cadate). 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):								
	Referred to in LPO I			AT,IT,GE,IN									
10-Al=IAI-242-m01				9 22	§ 22 II Nr. 3 b)								
10-AI-IAI-242-III01		5	Duration	n	1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses		Duration	V (2) + Ü (2) Modul level graduate Wodul level graduate Wodul level graduate									
	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 candidate). Language of assessment: German and/or English creditable for bonus									
	Referre	d to in I	LPO I	§ 22	II Nr. 3 b)								

10-l=ML-212-m01	Mathen	natical	Logic			'		,				
	ECTS	5	Duration		1 semester	Method of gradin	g numerical grade	Modul level	graduate			
	Courses	5		V (2) ·	+ Ü (2)							
	Method	of asse	essment	If ann	ounced by the lec	prox. 60 to 120 minuturer at the beginning	g of the course, the wri	tten examination may be	replaced by an oral examination s (approx. 15 minutes per candi-			
				date). Langu Asses	ate). anguage of assessment: German and/or English ssessment offered: In the semester in which the course is offered and in the subsequent semester reditable for bonus							
				AT,SE	ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): T,SE,KI,ES							
	Referred			§ 22 l	Nr. 3 b)							
10-l=Ml-212-m01	Medica		natics									
	ECTS	5	Duratio		1 semester	Method of gradin	g numerical grade	Modul level	graduate			
	Courses	5		V (2) ·	+ Ü (2)							
				of one date). Langu	e candidate each (or an oral examination		replaced by an oral examination s (approx. 15 minutes per candi-			
			_	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE, IT, KI, HCI, GE								
	Referred				§ 22 II Nr. 3 b)							
10-I=PM-252-m01			roject Ma			1						
		5	Duratio		1 semester	Method of gradin	g numerical grade	Modul level	graduate			
	Courses			V (4)								
	Method	of asse	essment	If ann of one date). Langu	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 candidate). Language of assessment: German and/or English creditable for bonus							
	other pr	rerequis	sites	We recommend completing module 10-I=PRJAK in parallel.								
	Addition	nal Info	rmation	Focus HCI, G		udents of the Master	's programme Informat	tik (Computer Science, 12	o ECTS credits): SE, IT, KI, ES, LR,			
	Referred	d to in L	PO I	§ 22 l	Nr. 3 b)							

10-LU-	Robotic	 :s 1									
RI=RO1-232-mo1	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S	-		V (2) + Ü (2) Module taught in: German and/or English						
	Method	l of ass	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 candidate). 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, 12	o ECTS credits): KI, ES, LR, HCI, GE			
	Referre		PO I	§ 22 l	l Nr. 3 b)						
10-LU-	Robotio	CS 2									
RI=RO2-232-mo1	ECTS	10	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S			V (4) + Ü (2) + P (1) Module taught in: German and/or English						
	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	rmation	Focus	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): KI, ES, LR, HCI, GE						
	Referre	d to in l	PO I	§ 22 II Nr. 3 b)							
10-I=ST-232-m01	Discret	e Event	Simulati	on							
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		V (2) + Ü (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 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): IT,KI,ES,GE,IN							
	Referre	d to in l	PO I	§ 22 l	l Nr. 3 b)						

10-l=El1-232-m01	Energy I	nform	atics 1		-			-	-		
	ECTS	5	Duration		1 semester	Method of gradin	g numerical grade	Modul level	graduate		
	Courses				+ Ü (2) ule taught in: Gerr	man and/or English					
	Method	of ass	essment	If and 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 candidate). Language of assessment: German and/or English creditable for bonus						
			_	Focus	ses available for s	students of the Master	's programme Informati	k (Computer Science, 12	o ECTS credits): IN		
	Referred			§ 22	II Nr. 3 b)						
10-l=SAR-161-m01					-		_				
		5	Duration		1 semester	Method of gradin	g numerical grade	Modul level	graduate		
	Courses			` '	+ Ü (2)	approx. 60 to 120 minu					
				of on date) Lang credi	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						
	Addition	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE,IT,ES						
	Referred	l to in I	LPO I	§ 22 II Nr. 3 b)							
10-LURI=S-	Spacecr	aft Sys	stem Anal	ysis	ysis						
SA-232-m01	ECTS	10	Duration		1 semester	Method of gradin	g numerical grade	Modul level	graduate		
	Courses	i		V (4) + Ü (2) Module taught in: English							
	Method	of ass	essment	If and 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 candidate). Language of assessment: English creditable for bonus						
					Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): ES, LR						
	Addition	nal Info	rmation	Focus	ses available for s	students of the Master	's programme Informati	k (Computer Science, 12	o ECTS credits): ES, LR		

10-l=VG-161-m01	Visualization of Graphs											
	ECTS 5 Dura	tion 1 semester	Method of grading numerical grade	Modul level	graduate							
	Courses	V (2) + Ü (2)	·	•	-							
	Method of assessme	If announced by the of one candidate ead date). Language of assessr	Language of assessment: German and/or English									
	Additional Informati	creditable for bonus n Focuses available fo AT,IT,HCI,GE	or students of the Master's programme Informatik	k (Computer Science, 120	o ECTS credits):							
	Referred to in LPO I	§ 22 II Nr. 3 b)										
10-I=SEC-252-m01	Introduction to IT Se	curity										
	ECTS 5 Dura	tion 1 semester	Method of grading numerical grade	Modul level	graduate							
	Courses	V (2) + Ü (2) Module taught in: Er										
	Method of assessme	If announced by the of one candidate ead date). Language of assessr	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 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: English creditable for bonus									
	Additional Informati	n Focuses available fo	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SEC, IN									
	Referred to in LPO I	§ 22 II Nr. 3 b)	§ 22 II Nr. 3 b)									
10-l=SSS-232-m01	Security of Software Systems											
	ECTS 5 Dura	tion 1 semester	Method of grading numerical grade	Modul level	graduate							
	Courses	V (2) + Ü (2) Module taught in: Er	V (2) + Ü (2) Module taught in: English									
	Method of assessme	If announced by the of one candidate ead date). Language of assessr	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: English creditable for bonus									
	Additional Informati	Focuses available fo SEC,IN	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE,KI,LR, HCI, ES, SEC,IN									
	Referred to in LPO I	§ 22 II Nr. 3 b)										

10-I=AKA-232-m01	Selecte	d Topic	s in Algor	ithms		-					
	ECTS	5	Duration)	1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses	S		V (2) -	+ Ü (2)	·	•	•			
	Method	d 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							
	Additional Information			Focus AT	es available for st	tudents of the Master's programme Informati	k (Computer Science, 12	o ECTS credits):			
	Referre	d to in L	PO I	§ 22 l	l Nr. 3 b)						
10-l=AKT-232-m01	Selecte	d Topic	s in Theor	ry							
	ECTS	5	Duration)	1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses			V (2) -	+ Ü (2)						
	Method of assessment			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): AT							
	Referre	d to in L	PO I	§ 22 II Nr. 3 b)							
10-l=AK-		d Topic	s in Softw	are En	gineering						
SE-232-m01	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses			V (2) -							
	Method	d 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							
	Additio	nal Info	rmation	Focus	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE.						
	Referre	d to in L	PO I	§ 22 l	l Nr. 3 b)						

10-l=AGE-232-mo1	Selected Topics in	n Games Engineering		'						
	ECTS 5 Du	uration 1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses	V (2) + Ü (2)		·						
	Method of assessr	b) project work (rep c) oral examination d) oral examination	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							
	Additional Informa	ation Focuses available fo	or students of the Master's programme Informatik	k (Computer Science, 12	o ECTS credits): GE.					
	Referred to in LPO	1 § 22 II Nr. 3 b)								
10-l=A-	Selected Topics in	<u>-</u>								
KITS-232-m01	ECTS 5 Du	uration 1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses	V (2) + Ü (2) Module taught in: E	V (2) + Ü (2) Module taught in: English							
	Method of assessr	c) oral examination d) oral examination Language of assess	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							
	Additional Informa	ES, SEC	,							
	Referred to in LPO	I § 22 II Nr. 3 b)	§ 22 II Nr. 3 b)							
10-I=AKIT-232-mo1		ı Internet Technologies								
	ECTS 5 Du	uration 1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses	V (2) + Ü (2)								
	Method of assessr	b) project work (rep c) oral examination d) oral examination	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							
			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT.							
	Additional Informa	ation Focuses available fo	or students of the Master's programme Informatik	k (Computer Science, 12	o ECTS credits): IT.					

10-l=A-	Selected To	pics in Intel	ligent Systems							
KIS-232-m01	ECTS 5	Duratio	n 1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses		V (2) + Ü (2)		·					
	Method of a	issessment	b) project work (repor c) oral examination of d) oral examination in	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						
	Additional I	nformation	Focuses available for	students of the Master's programme Informatil	k (Computer Science, 12	o ECTS credits): KI				
	Referred to	in LPO I	§ 22 II Nr. 3 b)							
10-l=A-		pics in Emb	edded Systems							
KES-232-m01	ECTS 5	Duratio	n 1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses		V (2) + Ü (2)	(2) + Ü (2)						
			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 I	nformation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): ES.							
	Referred to	in LPO I	§ 22 II Nr. 3 b)							
10-I=AKL-	Selected To	pics in Aero	space Engineering							
R-232-m01	ECTS 5	Duratio	n 1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses		V (2) + Ü (2)	V (2) + Ü (2)						
	Method of a	issessment	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							
	Additional I	nformation	Focuses available for	students of the Master's programme Informatil	k (Computer Science, 12	o ECTS credits): LR.				
	Referred to	in I PO I	§ 22 II Nr. 3 b)							

10-I=AKH-	Selecte	d Topic	s in HCI			,					
Cl-232-m01	ECTS	5	Duration	ı	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							
	Addition	nal Info	rmation	Focus	es available for	students of the Master'	s programme Informati	ik (Computer Science, 12	o ECTS credits): HCI.		
	Referred	d to in L	PO I	§ 22	Nr. 3 b)						
10-I=AKDS-232-	Selecte	d Topic	s in Data	Scienc	e						
mo1	ECTS	5	Duration)	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			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							
	Addition	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): KI						
	Referred	d to in L	PO I	§ 22 Nr. 3 b)							
10-l=A-	Selected Topics in Autonomous Mobile Systems										
KAMS-232-m01	ECTS	5	Duration)	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							
	Addition	nal Info	rmation	Focus	es available for	students of the Master'	s programme Informati	ik (Computer Science, 12	o ECTS credits): LR, ES, KI.		
	Referred	d to in L	PO I	§ 22 II	Nr. 3 b)						

10-I=AK-	Selecte	ed Topic	s in Comp	outer Science and Su	stainability			-			
NA-232-m01	ECTS	5	Duration	1 semester	Method of gradin	g numerical grade	Modul level	graduate			
	Course	!S		V (2) + Ü (2) Module taught in: G	erman and/or English						
	Method	d of ass	essment	b) project work (repo c) oral examination d) oral examination	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): IN						
				Focuses available fo	r students of the Master	's programme Informatik	(Computer Science, 12	o ECTS credits): IN			
		d to in I		§ 22 II Nr. 3 b)			,				
10-l=AKII-232-m01											
	ECTS	5	Duration		Method of gradin	g numerical grade	Modul level	graduate			
	Course			V (2) + Ü/S (2)				_			
				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							
	Referre	d to in I	LPO I	§ 22 II Nr. 3 b)							
10-HCI=M-	Multim	Multimodal User Interfaces									
MUI-161-mo1	ECTS	5	Duration	1 semester	Method of gradin	g numerical grade	Modul level	graduate			
	Course	:S		V (2) + Ü (2)							
	Method of assessment			presentation of project results (approx. 40 minutes) Language of assessment: German and/or English creditable for bonus							
	Additio	nal Info	rmation	Focuses available fo	r students of the Master	's programme Informatik	(Computer Science, 12	o ECTS credits): HCI,GE.			
	Referre	d to in I	LPO I	§ 22 Nr. 3 b)							
10-I-MCS-242-m01	Introdu	ıction ir	nto Humar	-Computer Interaction	on						
	ECTS	5	Duration	1 semester	Method of gradin	g numerical grade	Modul level	undergraduate			
	Course	·S		V (3) + Ü (1)		<u>.</u>					
				a) written examination (approx. 120 minutes) or b) presentation (30 to 60 minutes) or c) oral examination of one candidate each (30 to 60 minutes) Language of assessment: German and/or English creditable for bonus							
	Referre	d to in I	LPO I	§ 22 II Nr. 3 b)							

10-HCl=3DUI-161-	3D Use	r Interf	aces									
mo1	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (2)	/ (2) + Ü (2)							
	Method	d of ass	essment		presentation of project results (approx. 30 minutes)							
					Language of assessment: German and/or English							
	۸ ما ماند: م		ormation		creditable for bonus Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): HCI,GE.							
	Referre				· · · · · · · · · · · · · · · · · · ·							
10-HCI=M-					§ 22 II Nr. 3 b) Ser Interfaces)							
10-HCI=M- LUI-161-mo1						Mathad of evading a comparisal and do	Madulland	Lavaduata				
201 101 11101		5	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate				
	Course				+ Ü (2)							
	Method	or ass	essment			results (approx. 40 minutes) nt: German and/or English						
					table for bonus	nt. definant and/or English						
	Additio	nal Info	rmation	Focus	ses available for s	tudents of the Master's programme Informatik	(Computer Science, 12	o ECTS credits): HCI,GE.				
	Referre	d to in	LPO I	§ 22	22 II Nr. 3 b)							
10-HCl=RIS-182-	Real-Time Interactive Systems											
mo1	ECTS 5 Duratio			n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses			V (2)	+ Ü (2)	·	•					
	Method of assessment			If anr 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 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): HCI. Cf. Section 3 Subsection 3 Sentence 8 FSB (subject-specific provisions).							
	Referre	d to in	LPO I	§ 22	§ 22 II Nr. 3 b)							
10-MK-Dig-	Digital	media	1									
Med1-212-m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	S		V (2)	+ Ü (2)							
	Method of assessment			b) ora	a) written examination (approx. 50 minutes) or b) oral examination of one candidate each (approx. 20 minutes) Language of assessment: German and/or English creditable for bonus							
	Additio	nal Info	ormation	Inste	ad of an exercise,	a tutorial with 2 SWS can be offered.						
1	Doforro	d to in	LDO I	§ 22 II Nr. 3 b)								

10-MK-Dig-	Digital	media :	2								
Med2-212-m01	ECTS	10	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V (2)	+ Ü (2)				•		
	Method	d of ass	essment		a) written examination (approx. 100 minutes) or						
					b) oral examination of one candidate each (approx. 30 minutes)						
				credit	Language of assessment: German and/or English creditable for bonus						
	Referre	d to in I	LPO I	§ 22 l	l Nr. 3 b)						
Teaching (10 ECTS	credits)										
Area 1 (10 ECTS cre	dits)										
10-l-DDl1-152-m01	Compu	ter Scie	nce Educ	ation 1	(incl. Practical Cou	ırse in the Applicatio	n of Computer Science Systen	ns form an Educa	tional Point of View)		
	ECTS 6			1	2 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			V (2)	+ Ü (2) + P (2)			•			
	Method	d of ass	essment	If ann of one date)	vritten 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). It is creditable for bonus						
	Referre	d to in I	LPO I	§ 49 l § 69 l							
10-l-DDl2-GY-152-	Computer Science Education 2										
mo1	ECTS	4	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V (2)	$V(2) + \ddot{U}(2)$						
	Method	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 candidate). creditable for bonus							
	Referre	d to in I	LPO I	§ 69 Nr. 2 and § 69 Nr. 1 c): Rechnerarchitektur							
Freier Bereich (gen	eral as v	vell as s	subject-sp	ecific	electives) (o-15 EC	TS credits)					
Computer Science (Freier Bereich (ger	ieral as v	well as :	subject-sp	ecific	electives) subjec	t specific)					
10-I-REP-152-m01	Exam T	utorial	for the Ge	rman	Staatsexamen						
	ECTS	4	Duratio	1	2 semester	Method of grading	(not) successfully completed	d Modul level	undergraduate		
	Course	S		Ü (2)							
	Method	d of ass	essment	One e	xercise per area co	vered in the state exa	mination				
	Referred to in LPO I				l Nr. 2 f) l Nr. 3 b)						

10-I-DS-152-m01	Semina	r Comp	uter Scie	nce Ed	ucation						
	ECTS	4	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses	<u> </u>		S (2)	•						
	Method	of ass	essment		written elaboration (approx. 20 pages) and presentation including discussion (approx. 45 to 60 minutes) on a topic from the						
					field of computer science didactics						
	- C				Assessment offered: Only in the semester in which the course is offered						
	Referre	d to in I	LPO I		§ 22 Nr. 2 f) § 22 Nr. 3 f)						
10-I-DV-152-m01	Advanc	ed Topi	ics of Com	puter	Science Education						
	ECTS 4 Duration			1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Courses	S		S (2)	2	`					
	Method of assessment			b) pra Asses	sment offered: Only	exercise) with examir	nation talk (approx. 15 minutes) hich the course is offered				
	Referre	d to in I	LPO I		22 Nr. 2 f) 22 Nr. 2 f), § 22 Nr. 3 f)						
10-I-DRO-152-m01	Robotics in Education (practical course)										
	ECTS	4	Duration	า	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Courses	S		Ü (2)							
	Method of assessment				practical assignment (supervision of a group of pupils) with examination talk (approx. 15 minutes) Assessment offered: Only in the semester in which the course is offered						
	Referred to in LPO I				§ 22 Nr. 2 f) § 22 Nr. 3 f)						
10-I-DPR-152-m01	Practical Course on Computer Science Education										
	ECTS	4	Duration	 1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Courses	S	•	Ü (2)							
	Method	d of ass	essment		practical assignment with examination talk (approx. 15 minutes) Assessment offered: Only in the semester in which the course is offered						
	Referre	d to in I	LPO I		§ 22 Nr. 2 f) § 22 Nr. 3 f)						
10-I-DPP-152-m01	Hands-	on Com	puter Sci	ence							
	ECTS	6	Duration	า	2 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Course	S		Ü (2)	+ S (2)	_			-		
	Method	of ass	essment	practi	practical assignment (preparing and delivering a school lab session) with examination talk (approx. 15 minutes) Assessment offered: Only in the semester in which the course is offered						
	Referre	d to in I	LPO I	§ 22 Nr. 2 f) § 22 Nr. 3 f)							

10-I-TUT1-152-m01	Tutor a	tor activity 1											
	ECTS	2	Duration	ı		Method of grading	(not) successfully completed	Modul level	undergraduate				
	Courses			T (2)	「(2)								
	Method of assessment			Wrap-	Wrap-up report on tutoring activities (5 to 10 pages)								
	Referred to in LPO I				3 22 Nr. 2 f) 3 22 Nr. 3 f)								
10-I-TUT2-152-m01	Tutor a	ctivity 2											
	ECTS	2	Duration	ı		Method of grading	(not) successfully completed	Modul level	undergraduate				
	Courses		*	T (2)									
	Method of assessment		Wrap-up report on tutoring activities (5 to 10 pages)										
	Referre	d to in L			Nr. 2 f) Nr. 3 f)								