

Annex SFB

Studienfachbeschreibung (subject description, SFB) for the subject **Computer Science** with the degree "Exchange Austauschprogramm" (ECTS credits)

Responsible: Institute of Computer Science

Examination regulations version: 2025

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

= 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 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 assessment procedures:

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

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

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	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	ssessm	ent									
	Only after su completion o		l if applica	if applicable								
	Other prereq	uisites	if applica	if applicable								
	Participants and allocation of places		ocati- if applica	if applicable								
	Additional in	formati	on if applica	if applicable								
	Referred to i	n LPO I	if applica	if applicable (examination regulations for teaching-degree programmes)								

(ECTS credits)													
10-l-RIÜ-191-m01	Compu	ter Net	works and	Infor	mation Transmissior	1							
	ECTS	10	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S	•	V (4)	V (4) + Ü (2)								
	Referred to in LPO 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 candidate). creditable for bonus									
	Referre	d to in I	LPO I	§ 22	II Nr. 3 b), § 69 I Nr. 1	ı c)							
10-l-KT-191-m01	Compu	tationa	l Complex	ity									
	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course				+ Ü (2) en examination (appı								
				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									
	Referred to in LPO I			§ 22 II Nr. 3 b)									
10-l-KD-191-m01	Crypto	graphy	and Data	Secur	ity								
	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course			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 Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus									
	Referre	d to in I	LPO I	§ 22	II Nr. 3 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)	·	•						
	Referred to in LPO I			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								
				§ 49 l	49 Nr. 1 a) 69 Nr. 1 a)								
10-I-AR-152-m01	Automa	ation an	d Control	Techr	iology								
	ECTS 8 Duration			1	1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Course	S		V (4)	+ 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									
	Referre	Referred to in LPO I			§ 22 II Nr. 3 b)								
10-I-HMR-152-m01	Practic	Practical Measurement and Control System Engineering											
	ECTS	8	Duration	1	1 semester	Method of grading (not) successfully complete	ed Modul level	undergraduate					
	Course	S		P (6)									
	Method	of ass	essment	proje	ct with presentatic	n (approx. 15 minutes) and written elaboration (ap	prox. 12 to 15 pag	es)					
10-l-AGT-152-m01	Algorit	hmic Gr	aph Theo	ry			•						
	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Course	S		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	d to in l	PO I	§ 22 l	I Nr. 3 b)								

10-I-AKLR-152-m01	Selecte	d Chapters of	Aerospa	ce Science and En	gineering			-			
	ECTS	5 Durat	on	1 semester	Method of grading numerical grad	de	Modul level	undergraduate			
	Courses	,	V (2)	+ Ü (2)				•			
	Method	of assessmen	If an of or 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). Language of assessment: German and/or English							
10-I-AKI-152-m01	Selected	d Chapters of			- Comman and/or English						
10 17111 132 11101		5 Durat		1 semester	Method of grading numerical grad	de	Modul level	undergraduate			
	Courses		V (2)	+ Ü (2)	·						
	Method	of assessmen	If an of or date	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 o of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 min late). anguage of assessment: German and/or English							
10-I-DB-152-m01	Databas	es	•								
	ECTS	5 Durati	on	1 semester	Method of grading numerical grad	de	Modul level	undergraduate			
	Courses		V (2)	+ Ü (2)	·			•			
	Method	of assessmen	If an of or 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	l to in LPO I		I Nr. 1 b) I Nr. 1 b)							
10-l-LOG-152-m01	Logic fo	r informatics									
	ECTS	5 Durat	on	1 semester	Method of grading numerical grad	de	Modul level	undergraduate			
	Courses	i	V (2)	+ Ü (2)				_			
	Method	of assessmen	If an of or 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	l to in LPO I	§ 22	§ 22 II Nr. 3 b)							

10-l-Gl-152-m01	Selected Basics of Computer Science												
	ECTS	5 C	Ouration		1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses	;		V (4)	+ Ü (2)			•					
	Method	of assess				prox. 60 to 120 minute							
				of one date) Langu	anguage of assessment: German and/or English								
	creditable for bonus Introduction to Aviation Systems												
10-I-LFS-172-m01													
			Ouration		1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses			• • •	+ Ü (1)								
	Method	of assess		If ann	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. 30 minutes). creditable for bonus								
	Referred	to in LPC	Οl	§ 22 l	l Nr. 3 b)								
10-I-RFS-172-m01	Introduction to Space Systems												
	ECTS	5 C	Ouration		1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses	;		V (2) + Ü (1)									
	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. 30 minutes). creditable for bonus									
	Referred	to in LPC	Οl	§ 22 II Nr. 3 b)									
10-I-GdP-172-m01	Fundam	entals of	Prograi										
	ECTS	5 C	uration		1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses	,		V (2)	+ Ü (2)			•					
	Method	of assess		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 b) § 69 Nr. 1 b)									

10-l-lCG-152-m01	Interac	tive Con	nputer Gra	aphics									
	ECTS	5	Duration		Method of grading numerical grade	Modul level	undergraduate						
	Course	<u> </u>		V (2) + Ü (2)	·								
	Method	l of asse		If announced by the lead of one candidate each date).	anguage of assessment: German and/or English								
	Referre	d to in L	PO I	§ 22 II Nr. 3 b)									
10-I-NIT-212-m01		ability		3 22 II NI. 3 D)									
10 1 1111 212 11101		5	Duration	1 semester	Method of grading numerical grade	Modul level	undergraduate						
	Course			V (2) + Ü (2) Module taught in: Gerr		moduction	and organization						
	Method	l 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 candidate). Language of assessment: German and/or English creditable for bonus									
	Additio	nal Info	rmation	Qualification goal: scie	entific competences	,							
10-l-MuS-212-m01	Modeling and Simulation												
	ECTS 5 Duration			1 semester	Method of grading numerical grade	Modul level	undergraduate						
	Course	<u> </u>		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). 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		Method of grading numerical grade	Modul level	undergraduate						
	Course	S		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 candidate). creditable for bonus									
	Referre	d to in L	PO I	§ 22 Nr. 3 b)									

10-I-TML-222-m01	Theory of Machine Learning												
	ECTS	5	Duration)	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S			+ Ü (2) le taught in: Germa	an and/or English							
	Method	l of asse		If ann 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 candilate). anguage of assessment: German and/or English reditable for bonus								
	Referre			§ 22 l	l Nr. 3 b)								
10-l-Tl-242-m01			putation										
	ECTS 10 Duratio				1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course			V (4) -				,					
				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			Nr. 1 a) Nr. 1 a)								
10-I-SKS-242-m01	Control Principles of Modern Communication Systems												
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S		V (2) -	+ Ü (2)								
	Method	l 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 candidate). Language of assessment: German and/or English creditable for bonus									
10-l-DM-242-m01	Data So	ience											
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course				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 candidate). Language of assessment: German and/or English creditable for bonus									
	Referred to in LPO I			§ 22 l	§ 22 Nr. 3 b)								

10-I-BS-242-m01	Operat	ing Syst	tems					'					
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S	•	V (2)	+ Ü (2)			•					
	Method	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 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								
	Referre	d to in L	PO I		reditable for bonus 3 22 II Nr. 3 b), § 69 I Nr. 1 c)								
10-I-SE-252-m01		re Engir		3		3/							
-	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	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). creditable for bonus									
	Referred to in LPO I				§ 49 Nr. 1 b) § 69 Nr. 1 b)								
10-I-RAL-252-m01	Digital computer systems												
	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S		V (4)	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 examinatio 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	Referred to in LPO I			§ 22 Nr. 3 b), § 69 Nr. 1 c)								
10-l-Kl-Nl-251-m01	Artificia	al and n	atural Int	elligeı	ıce			,					
	ECTS 5 Duratio			1	1 semester	Method of grading	(not) successfully completed	d Modul level	undergraduate				
	Course	S		V (2)									
	Method	d of asse	essment	a) written examination (approx. 60 minutes) or b) presentation (approx. 20 minutes) with written elaboration (5 to 10 pages)									

10-I-LRFB-252-m01	Spacec	raft Ope	erations					,	-				
	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S	,	V (4) ·	+ Ü (2)	•		·					
	Method	l of asse	essment	If ann	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								
10-LURI-LMT-252-	Measurement Technique												
mo1		6	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses				+ Ü (2)	method of grading	numericat grade	moduliteret	_ undergraduate				
			essment			ox. 60 to 120 minute	·s).						
				of one date). credit	reditable for bonus								
10-LURI-FD-252-	Introdu	ction to	Flight M	echani	cs								
mo1	ECTS 5 Duratio		Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S		V (2) ·	+ Ü (2)				_				
	Method of assessment			If ann of one date)	ounced by the lecture candidate each (ap	rer at the beginning o	of the course, the writ		replaced by an oral examination s (approx. 15 minutes per candi-				
10-LURI-HWZ-252-	Hardwa	re-orie	nted prog	rammi	ng and Fundamenta	ls Avionics							
mo1	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S		V (4) ·	+ Ü (2) + P (2)	,		,					
	Method of assessment			hours	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								
	Referre	d to in L	PO I	§ 22 l	l Nr. 3 b)								
10-I-LRLA-252-m01		ace Lab	oratory										
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course				V (2) + P (2)								
	Method	d of asse	essment	Comp	Completion of approx. 6 practical exercises (approx. 4 hours each)								

10-l-Al-252-m01	Introdu	Introduction to AI												
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Course	S	•	V (2) - Modu	- + Ü (2) le taught in: Germa	n and/or English								
	Method	d of asse	essment	If ann of one date).	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). late). language of assessment: German and/or English creditable for bonus									
10-l-EidO-252-m01	Introdu	ction to	Optimiza	ation										
	ECTS	5	Duration)	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Course	S		V (2) - Modu	- + Ü (2) le taught in: Germa	n or English								
				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									
10-I-ASV-252-m01	Applied Statistics and Visualization													
	ECTS	3	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate					
	Course	S		V (1) +	P (2)									
	Method	d of asse		b) Wri If ann of one date). Langu	a) Portfolio (Workload approx. 75 h) or b) Written exam (approx. 60 to 75 minutes) If 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 particular). Language of assessment: German and/or English creditable for bonus									
(ECTS credits)														
10-LURI=S-	Space	Dynami	cs											
D-202-m01	ECTS	5	Duration)	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course			V (2) - Modu	ı + Ü (2) le taught in: Englisl		3	'	10					
	Method 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 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										
Computer Science (2025)							JMU Würzburg • generated 17-Nov-20	25 • exam. reg. data re	ecord XA 079 - - H 2025 page 11 / 40					

10-LURI=AS-	Advand	Advanced Sensory Systems and Sensor Data Processing											
S-202-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								
	Method	d of ass	essment	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 candidate). Language of assessment: German and/or English creditable for bonus									
10-LU-	3D Poi	nt Cloud	d Processi	ng									
RI=3D-202-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									
	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								
10-xtAl=CV-202-	Compu	ter Visi	on										
mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S			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 candidate). Language of assessment: English creditable for bonus									

10-I=APA-161-m01	Approx	imatio	n Algorith	ms	,		,					
	ECTS	5	Duration	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (2)	+ Ü (2)	·						
	Method	l of ass	essment	If anr of on date) Langi	ounced by the le e candidate each •	pprox. 60 to 120 minutes). cturer at the beginning of the course, the written (approx. 20 minutes) or an oral examination in s nt: German and/or English	n examination may be groups of 2 candidate	replaced by an oral examination s (approx. 15 minutes per candi-				
				Focus	ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT,IT,GE							
10-l=AVS-161-m01	Referre	d to in	LPO I	§ 22 l	II Nr. 3 b)							
	Avionio	s Syste	ems									
	ECTS	5	Duration	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (2)	+ Ü (2)		·					
	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								
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): ES,LR								
10-I=SAR-161-m01	Softwa	re Arch	itecture									
	ECTS	5	Duration	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		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 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): SE,IT,ES							
	Referre	d to in	LPO I	§ 22	II Nr. 3 b)							

10-I=VG-161-m01	Visuali	zation	of Graphs						-			
	ECTS	5	Duration	า	1 semester	Method of grading numerical grad	le	Modul level	graduate			
	Course	S		V (2)	+ Ü (2)			•				
	Method	d of ass	essment			oprox. 60 to 120 minutes).						
				of one 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 candidate). Language of assessment: German and/or English creditable for bonus							
	Additio	onal Info	ormation		ses available for st HCI,GE	tudents of the Master's programme Info	ormatik (Compu	ter Science, 12	o ECTS credits):			
	Referre	d to in	LPO I	§ 22 l	II Nr. 3 b)							
10-l=GRL-	Game F	Researc	h Lab - Th	eory								
T-182-m01	ECTS	10	Duratio	า	1 semester	Method of grading numerical grad	le	Modul level	graduate			
	Course	S		R (4)				·				
	Method	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							
	Additional Information					tudents of the Master's programme Info n 3 Sentence 8 FSB (subject-specific pi		ter Science, 12	o ECTS credits): GE.			
10-l=GRAR-182-	Game F	Game Research Lab - Architectures										
mo1	ECTS	10	Duratio	า	1 semester	Method of grading numerical grad	le	Modul level	graduate			
	Course	S		R (4)								
	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								
	Additio	nal Info	ormation	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-l=GRDE-182-	Game F	Researc	:h Lab - De	sign								
mo1	ECTS	10	Duratio	า	1 semester	Method of grading numerical grad	le	Modul level	graduate			
	Course	S		R (4)	-	·						
	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								
	Additional Information			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-l=GRAP-182-	Game I	Game Research Lab - Applications											
mo1	ECTS	10	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	!S		R (4)				*					
	Method	d of asse	essment	Langu	project report (10 to 15 pages) and presentation of project (15 to 30 minutes) 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): GE. Cf. Section 3 Subsection 3 Sentence 8 FSB (subject-specific provisions).									
10-I-PAT1-182-m01	Practical Course - Algorithms and Theory 1												
	ECTS	10	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses			R (6)									
	Method of assessment			Langu		d presentation of res German and/or Engl	ults (15 to 30 minutes) ish						
	Additional Information			Focus	ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT.								
10-I-PIT1-182-m01	Practic	al Cours	e - Intern	et Tec	rt Technology 1								
	ECTS	10	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	!S		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									
	Additio	nal Info	rmation	ation Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT.									
10-I-PSE1-182-m01	Practic	al Cours	rse - Software Engineering 1										
	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	:S	•	R (6)				•					
	Method	d of asse	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								
	Additio	nal Info	rmation	Focus	es available for stud	dents of the Master's	programme Informatik	(Computer Science, 12	o ECTS credits): SE.				
10-I-PES1-182-m01	Practic	al Cours	e - Embe	dded S	ystems 1								
	ECTS	10	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	!S		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									
	Additio	nal Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): ES.									

10-I-PHCl1-182-	Practic	Practical Course - Human Computer Interaction 1											
mo1	ECTS	10	Duration	ı	1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Course	S		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									
	Additional Information			Focus	es available for stu	dents of the Master's programme Informatik (Comp	outer Science, 12	o ECTS credits): HCI.					
10-I=BER-212-m01	Compu	tability	Theory										
	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	S		V (2) -	+ Ü (2)								
	method of dissessment			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									
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,SE,IT,KI,GE									
	Referre	Referred to in LPO I			§ 22 II Nr. 3 b)								
10-I=DDB-212-m01	Deduct	ive Data	abases										
	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	graduate					
	Course			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 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,SE,IT,KI									
	Referre				Nr. 3 b)								

10-l=LP-212-m01	Logic P	rogram	ming									
	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (2)	$J(2) + \ddot{U}(2)$							
	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 creditable for bonus							
				of one date) Langu								
	Additio	nal Info	ormation	Focus	es available for st	udents of the Master's programme Informatik (Computer Science, 12	o ECTS credits): AT,SE,IT,KI				
	Referre	Referred to in LPO I			I Nr. 3 b)							
10-l=NLP-212-m01	Machin	e Learr	ning for Na	tural	Language Process	ing						
	ECTS	5	Duration	ı	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (2)	+ Ü (2)							
				of one date) Langu	If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examinatio 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,KI,HCI								
	Referre			§ 22 II Nr. 3 b)								
10-l=KT2-212-m01		tationa	l Complex	ity II								
	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	graduate				
	Course			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 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								
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, SE, IT, ES								
	Referre	d to in	LPO I	§ 22 l	l Nr. 3 b)							

10-l=ML-212-m01	Mather	natical	Logic										
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		V (2) -	+ Ü (2)								
	Method	l 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 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									
				AT,SE	ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): T,SE,KI,ES								
	Referre	rred to in LPO I § 22 II Nr. 3 b)											
10-l=Ml-212-m01	Medical Informatics												
	ECTS 5 Duratio				1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course				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	Focus	es available for stud	dents of the Master's	programme Informatik (Compu	iter Science, 120	o ECTS credits): SE, IT, KI, HCI, GE				
	Referre	d to in L	.PO I	§ 22 l	l Nr. 3 b)								
10-I-PIS1-212-m01	Practic	al Cours	se - Intelli	gent S	ystems 1								
	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		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									
	Additio	nal Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): KI									

10-l=IP-222-m01	Image	Process	ing and C	omput	ational Photograph	ıy		1				
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		$V(2) + \ddot{U}(2)$ Module taught in: English								
				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: English creditable for bonus							
	Referred to in LPO I			§ 22 l	Nr. 3 b)							
10-LURI=S-	Spaced	raft Sy	stem Anal	ysis								
SA-232-m01	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses				V (4) + Ü (2) Module taught in: English							
	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: English creditable for bonus							
	Additio	nal Info	rmation	Focus	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): ES, LR							
	Referre	d to in I	LPO I	§ 22 II Nr. 3 b)								
10-LURI=GRF-		Mecha										
M-232-m01	ECTS	10	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course			1 1/	+ Ü (2)							
	Method of assessment			b) pro If ann of one date).	oject work (report (a) ounced by the lectu e candidate each (a)	pprox. 20 pages) with rer at the beginning o	presentation (30 to 45 min f the course, the written ex	amination may be	ent discussion on the topic) replaced by an oral examination s (approx. 15 minutes per candi-			

10-LU-	Satelli	te Imag	e process	ing			,				
RI=SBV-232-mo1	ECTS	10	Duratio	1	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	25		V (4) + Ü (2)							
				Module taught in: German and/or English							
	Method	d of ass	essment			prox. 60 to 120 minutes)					
						turer at the beginning of the course, the writte approx. 20 minutes) or an oral examination in					
				date).	•	approxi 20 minutes, or an orat examination in	ingroups of 2 carraidates	s (approxi 1) illinates per canal			
						nt: German and/or English					
	- ·				able for bonus			_			
11151 61		d to in			l Nr. 3 b)		1				
10-LURI=SL- R-232-m01			_		Computing	Tag it to the terminal transfer of the termina		1			
K-232-11101		5	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	es			+ Ü (2) le taught in: Germ	an and/or English					
	Method	d of ass	essment			approx. 60 to 120 minutes) or		_			
	Metho	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							
10-LU-	Roboti	CS 1									
RI=RO1-232-mo1	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	25		V (2) + Ü (2)							
				Module taught in: German and/or English							
	Method	d of ass	essment			prox. 60 to 120 minutes)	on ovamination may be	rankagad by an aral avamination			
				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							
	0 1 1111	11.6		creditable for bonus							
					Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): KI, ES, LR, HCI, GE						
	Referred to in LPO I			§ 22 II Nr. 3 b)							

10-LU-	Robotic	 CS 2					,						
RI=RO2-232-m01	ECTS	10	Duratio	n	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	d of ass	sessment	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	ormation	Focus	ses available for s	students of the Master's programme Informatil	k (Computer Science, 12	o ECTS credits): KI, ES, LR, HCI, GE					
	Referre	d to in	LPO I	§ 22 l	II Nr. 3 b)								
10-LU-			Mobile Sy:										
RI=AMS-232-mo1	ECTS	10	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	S			V (4) + Ü (2) Module taught in: German and/or English								
	Method	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								
	Additic	nal Info	ormation	Focus	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-LURI=PHO-	Photog	gramme	tric Mach	ine Vis	ion								
TO-232-m01	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 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									
	Referre	d to in	LPO I	§ 22 II Nr. 3 b)									

10-I=TSD-232-m01	Teleco	mmunic	ation Sys	tems								
	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S	•		V (4) + 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) 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							
	Additio	nal Info	ormation	Focus	es available for s	tudents of the Master's	s programme Informatik	(Computer Science, 12	o ECTS credits): LR			
		ed to in l		_	I Nr. 3 b)							
10-LURI=SR-	Selecte	<u>∍d Topic</u>	cs in Robo	tics ar	nd Telematics				_			
T-232-m01	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			/ (2) + Ü (2) Module taught in: German and/or English							
				c) ora d) ora Langu	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							
10-LURI=R-	Space :	System	s Design									
SE-232-m01	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		R (8) Module taught in: German and/or English								
	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								
10-LURI=EP-	Design	of Plan	etary Bas	es and	l Orbital Stations			,				
B-232-m01	ECTS	10	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S	,	R (8) Module taught in: German and/or English								
	Method	d of ass	essment									

10-LURI=FZ-	Aircraf	t Constr	uction											
B-232-mo1	ECTS	10	Duratio	n	2 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	es		R (8) Modu	R (8) Module taught in: German and/or English									
	Method	d of asso	essment	Langu	project report (10 to 15 pages) and presentation of project (15 to 30 minutes) Language of assessment: German and/or English creditable for bonus									
10-LURI=F-	Flight S	Flight Simulator												
SIM-232-m01	ECTS	10	Duratio	n	2 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	es		R (8) Modu	le taught in: Germar	n and/or English								
	Metho	d of asso	essment	Langu	project report (10 to 15 pages) and presentation of project (15 to 30 minutes) anguage of assessment: German and/or English areditable for bonus									
10-LURI=P-	Practic	al Robo	tics and 1	Гelema	elematics									
TEL-232-m01	ECTS	ECTS 10 Duratio			1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	Courses			le taught in: Germar	n and/or English								
	Metho	Method of assessment			Report on practical course (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic Language of assessment: German and/or English									
10-LURI=TD-	Team [Team Design Project												
P-232-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	Courses			R (8) Module taught in: German and/or English									
	Metho	d of ass	essment		project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) Language of assessment: German and/or English									
10-LURI=FD-	FloatS	at Desig	n Lab											
W-232-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	es		R (8) Module taught in: German and/or English										
	Metho	d of asso	essment	Practical project: development, construction and presentation of a satellite control system (project documentation (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) Language of assessment: German and/or English										

10-l=TEL-232-m01	Telecommunication Systems Lab												
	ECTS	10	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	S		R (8)									
				Module taught in: German and/or English									
	Method	d of ass	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								
	Additio	nal Info	rmation	Focus	ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): LR								
10-LU-	Embedded Systems in Robotics and Space Technology												
RI=ESRR-232-mo1	ECTS	10	Duration	ı	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	S		R (8) Modu	lle taught in: Germa	an and/or English							
	Method	d of ass	essment	pages	ractical project: development, construction and presentation of an embedded system (project documentation (approx. 20 ages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) anguage of assessment: German and/or English								
10-l=LVS-232-m01	Perforn	nance E	valuation	of Dis	of Distributed Systems								
	ECTS	5	Duration	า	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	S		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								
	Additio	nal Info		Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,IT,GE,IN									
	Referre	d to in I	LPO I	§ 22 II Nr. 3 b)									
10-l=ST-232-m01	Discret	e Event	Simulatio	on			'						
	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	S		V (2)	+ Ü (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). Language of assessment: German and/or English creditable for bonus									
	Additio	nal Info		Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT,KI,ES,GE,IN									
	Referre	d to in I	LPO I	§ 22 II Nr. 3 b)									

10-I=SNA-232-m01	Statistical Network Analysis												
	ECTS	5	Duration	<u> </u>	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	25			V (2) + Ü (2) Module taught in: English								
	Metho	d of ass		If ann of one date).	ounced by the led candidate each	(approx. 20 minutes) o	of the course, the writter		replaced by an oral examination s (approx. 15 minutes per candi-				
	Additional Information			Focus	es available for st	tudents of the Master's	programme Informatik ((Computer Science, 120	ECTS credits): IN				
10-I=PCV-232-m01	Practio	al Com	puter Visio	n	-								
	ECTS	10	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	<u>!</u> S		R (8) Modu	R (8) Module taught in: German and/or English								
	Method of assessment			b) wri If ann of one date). Langu credit	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 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): KI,LR;HCI									
10-I=PIP-232-m01					ational Photogra	<u> </u>	·		1				
	ECTS Course	10 S	Duration	R (8)	1 semester	Method of grading	numerical grade	Modul level	graduate				
						nan and/or English							
	Metho	d of ass	essment	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									

10-I=AKA-232-m01	Selected Topics in Alg	gorithms		,						
	ECTS 5 Durat	ion 1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses	V (2) + Ü (2)	·	·						
	Method of assessmen	b) project work (report c) oral examination or d) oral examination ir	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	AT	ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits):							
	Referred to in LPO I	§ 22 II Nr. 3 b)								
10-I=AKT-232-m01	Selected Topics in The	eory								
	ECTS 5 Durat	ion 1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses	V (2) + Ü (2)		·						
		c) oral examination of d) oral examination in	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	AT								
	Referred to in LPO I	§ 22 II Nr. 3 b)								
10-I=AK-	Selected Topics in So	ftware Engineering								
SE-232-m01	ECTS 5 Durat	ion 1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses	V (2) + Ü (2)			_					
	Method of assessmen	b) project work (report 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							
1	A 1 11.1		Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE.							
	Additional Information	n Focuses available for	students of the Master's programme Informatik	(Computer Science, 12)	o ECTS credits): SE.					

10-l=A-	Selecte	d Topic	s in IT Se	curity							
KITS-232-m01	ECTS	5	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S			V (2) + Ü (2) Module taught in: English						
	Method	d of ass	essment	b) pro c) ora d) ora Lange	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	nal Info	ormation	Focus ES, S		students of the Master's	programme Informatil	k (Computer Science, 12	o ECTS credits): SE, KI, LR, HCI,		
	Referre	d to in	LPO I	§ 22 l	II Nr. 3 b)						
10-l=AKIT-232-m01	Selecte	ed Topic	s in Inter	net Te	chnologies						
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V (2)	(2) + Ü (2)						
	Metrioc	Method of assessment			b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the top 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.							
	Referre	d to in	LPO I	§ 22 II Nr. 3 b)							
10-l=A-	Selecte	ed Topic	s in Intell	igent	Systems			'			
KIS-232-m01	ECTS	5	Duration	1	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	nal Info	ormation	Focus	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): KI						
	Referre	d to in	I DO I	§ 22 II Nr. 3 b)							

10-l=A-	Selecte	d Topi	cs in Embe	edded Systems								
KES-232-m01	ECTS	5	Duration	1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses	5		V (2) + Ü (2)	·							
	Method	of ass	sessment	b) project work (report c) oral examination of d) oral examination in) written examination (approx. 60 to 120 minutes) or) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) or) oral examination of one candidate each (approx. 20 minutes) or) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) anguage of assessment: German and/or English reditable for bonus							
	Additio	nal Inf	ormation	Focuses available for s	students of the Master's programme Informatil	k (Computer Science, 12	o ECTS credits): ES.					
	Referre	d to in	LPO I	§ 22 II Nr. 3 b)								
10-I=AKL-	Selecte	d Topi	cs in Aeros	space Engineering								
R-232-m01	ECTS 5 Duration			1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses	5		V (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								
	Additio	nal Inf	ormation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): LR.								
	Referre	d to in	LPO I	§ 22 II Nr. 3 b)								
10-I=AKH-	Selecte	d Topi	Selected Topics in HCI									
Cl-232-m01												
CI-232-M01	ECTS	5	Duration	1 semester	Method of grading numerical grade	Modul level	graduate					
CI-232-M01	Courses		_	1 semester V (2) + Ü/S (2)	Method of grading numerical grade	Modul level	graduate					
CI-232-m01	Course	S	Duration	V (2) + Ü/S (2) a) written examination b) project work (report c) oral examination of d) oral examination in	Method of grading numerical grade (approx. 60 to 120 minutes) or (approx. 20 pages) with presentation (30 to 4 one candidate each (approx. 20 minutes) or groups of up to 3 candidates (approx. 15 minutent: German and/or English	5 minutes) and subsequ						
CI-232-m01	Course: Method	s I of ass	Duration	V (2) + Ü/S (2) a) written examination b) project work (report c) oral examination of d) oral examination in Language of assessme creditable for bonus	(approx. 60 to 120 minutes) or (approx. 20 pages) with presentation (30 to 4 one candidate each (approx. 20 minutes) or groups of up to 3 candidates (approx. 15 minutes)	5 minutes) and subsequ	ent discussion on the topic) or					

10-l=AKII-232-m01	Selecte	d Topic	s in Comp	uter Scie	ence			'				
	ECTS	5	Duration	1	semester	Method of grading	numerical grade	Modul level	graduate			
	Course	 S		V (2) + Ü	/S (2)		·	•				
	Method	d of asse		b) project c) oral ex d) oral ex Language	ct work (report (a xamination of on xamination in gro	e candidate each (a	th presentation (30 to 4) oprox. 20 minutes) or idates (approx. 15 minu	,	uent discussion on the topic) or			
	Referre	d to in L	PO I		22 II Nr. 3 b)							
10-I=SEM3-232-					nputer Science			,				
mo1		5	Duration		semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			S (2) Module The cour	taught in: Germa rse is offered in p	n and English parallel in both Germ	an and English.		_			
				puter sci Languag	term paper (10 to 15 pages) and presentation (30 to 45 minutes) with subsequent discussion on a topic from the field of combuter science Language of assessment: German and/or English							
	Additional Information			LR, HCI,	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-l=SEM4-232-	Seminar 2 - Current Topics in Computer Science											
mo1	ECTS	5	Duration		semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			S (2) Module taught in: German and English The course is offered in parallel in both German and English.								
	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-l=ICG-232-m01	Interac	tive Con	nputer Gr	aphics								
	ECTS	5	Duration	1	semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (2) + Ü	(2)							
	Method	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						es (approx. 15 minutes per candi-				
	Additio	nal Info	rmation	Focuses	available for stu	dents of the Master'	s programme Informatik	(Computer Science, 12	o ECTS credits): HCI.			

10-l=SSS-232-m01	Securit	y of So	ftware Sys	stems								
	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S			+ Ü (2) ıle taught in: Engli	sh						
	Method	d of ass	essment	If ann of one date). Langu	nguage of assessment: English ditable for bonus							
				SEC,II	N	tudents of the Master's programme Informatik (Co	omputer Science, 12	o ECTS credits): SE,KI,LR, HCI, ES,				
	Referre			§ 22 l	I Nr. 3 b)		1					
10-l=RAK-232-m01		ter Arch	nitecture									
	ECTS 5 Duratio				1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses			V (2) ·	+ Ü (2)							
	Method	d of ass	essment	If ann of one date). Langu	ounced by the lec e candidate each (oprox. 60 to 120 minutes). turer at the beginning of the course, the written e (approx. 20 minutes) or an oral examination in gr nt: German and/or English						
	Additio	nal Info	rmation	Focus	ses available for st	tudents of the Master's programme Informatik (Co	omputer Science, 120	o ECTS credits): SE, IT, ES, LR, GE.				
10-l=WBS-232-	Knowle	dge-ba	sed Syste	ems			,					
mo1	ECTS	5	Duration	n	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	ounced by the lec e candidate each (oprox. 60 to 120 minutes) turer at the beginning of the course, the written e (approx. 20 minutes) or an oral examination in gr nt: German and/or English						
	Additio	nal Info	rmation	Focus	es available for st	tudents of the Master's programme Informatik (Co	omputer Science, 12	o ECTS credits): SE, IT, KI, HCI, GE				

10-l=AG-232-m01	Compu	tationa	l Geometr	y	'	1					
	ECTS	5	Duration		1 semester	Method of grad	ing numerical grade		Modul level	graduate	
	Courses	S		V (2)) + Ü (2)		<u>.</u>				
	Additional Information			If an of or 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). 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,HCI,GE,IN						
	Referred to in LPO I § 22 II Nr. 3 b)										
10-l=AGE-232-m01	Selecte	d Topic	s in Game	s En	gineering						
	ECTS	5	Duration		1 semester	Method of grad	ing numerical grade		Modul level	graduate	
	Courses	S		V (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						
	Additio	nal Info	rmation	Focu	ses available for	students of the Mast	er's programme Inform	natik (Comput	er Science, 12	o ECTS credits): GE.	
	Referre	Referred to in LPO I			§ 22 II Nr. 3 b)						
10-I=RRS-232-m01											
	ECTS	5	Duration		1 semester	Method of grad	ing numerical grade		Modul level	graduate	
	Courses	S		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 candidate). Language of assessment: German and/or English creditable for bonus							
				CICU	itable for bollus						
	Additio	nal Info	rmation			A 120 Computer Scie	nce: LR,IN			_	

10-I=NA-	Sustair	nable M	obility				'				
MO-232-m01	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul le	evel	graduate		
	Course	S		V (2)	+ Ü (2)	·			•		
	Method	d of ass	essment	If ann of one date)	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 candidate). creditable for bonus						
	Additio	nal Info	rmation	Focus	ses available for st	udents of the Master's programme Inforn	natik (Computer Sciend	ce, 12	o ECTS credits): IN		
	Referred to in LPO I § 22 II Nr. 3 b)										
10-l=MLN1-232-	Machir	ne Learr	ing for No	etwork	S 1						
mo1	ECTS	5	Duratio	<u> </u>	1 semester	Method of grading numerical grade	Modul le	evel	graduate		
	Course	S			+ Ü (2) ıle taught in: Engli	sh					
			essment	If ann of one date) Langu	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 cadate). Language of assessment: English creditable for bonus						
	Additio	nal Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,IT,SE,KI,HCI,IN							
		d to in I		§ 22 Nr. 3 b)							
10-I=OR-232-m01	Operations Research										
	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul le	evel	graduate		
	Course	S		V (2) + Ü (2) Module taught in: German and/or English							
1	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). 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): IN							
	Referre	d to in I	LPO I	§ 22 l	l Nr. 3 b)				_		

10-I=AK-	Selected T	opics in Con	puter S	Science and Sustaina	ability		1	-		
NA-232-m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			√(2) + Ü(2) Module taught in: German and/or English						
	Method of	assessment	b) pro c) ora d) ora Lange	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) canguage of assessment: German and/or English creditable for bonus						
	Additional	Information	Focus	ses available for stud	lents of the Master's	programme Informati	k (Computer Science, 12	o ECTS credits): IN		
	Referred to	in LPO I	§ 22 l	II Nr. 3 b)						
10-l=M-	Multilingu	al NLP								
NLP-232-m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	·		(2) + Ü (2) Nodule taught in: German and/or English						
	Method of	assessment	If anr of on date) Lange	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 examinatio of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per cand date). Language of assessment: German and/or English creditable for bonus						
	Referred to	Referred to in LPO I		§ 22 II Nr. 3 b)						
10-l=PDS1-232-	Practical C	Course - Data	Scienc	e 1						
mo1	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		R (6)	R (6)						
	Method of	assessment	Langi	report (10 to 15 pages) and presentation of results (15 to 30 minutes) Language of assessment: German and/or English creditable for bonus						
10-l=PDS2-232-	Practical C	Course - Data	Scienc	e 2						
mo1	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		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							

10-l=PIN1-232-m01	Practic	al Cour	se - Comp	uter S	cience and Sustain	nability 1						
	ECTS	10	Duration	1	1 semester	Method of grading numer	ical grade	Modul level	graduate			
	Course	S		R (6)								
	Method	of ass	essment			and presentation of results (15	to 30 minutes)					
					anguage of assessment: German and/or English reditable for bonus							
	A 1 1'''	- 11 6					1.5 (1) (6		ECTC III) IN			
. 5111						udents of the Master's program	nme Informatik (Compu	iter Science, 12	o ECIS credits): IN			
10-I=PIN2-232- mo1				puter Science and Sustainability 2			I	1				
		10	Duration		1 semester	Method of grading numer	ical grade	Modul level	graduate			
	Courses			R (6)								
	Method of assessment				port (10 to 15 pages) and presentation of results (15 to 30 minutes)							
				credit	nguage of assessment: German and/or English editable for bonus							
	Additio	nal Info	ormation		cuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IN							
10-l=El1-232-m01	Energy				ocuses available for students of the master's programme informatik (computer science, 120 LC13 cledits): IN							
		5	Duration	า	1 semester	Method of grading numer	ical grade	Modul level	graduate			
	Course			V (2) -	ι + Ü (2)	, 5			10			
				Modu	le taught in: Germ	an and/or English						
	Method	d of ass	essment			prox. 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	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IN							
	Referre	d to in	LPO I	§ 22 l	§ 22 II Nr. 3 b)							
10-l=AKDS-232-	Selecte	ed Topic	cs in Data	Scienc	:e							
mo1	ECTS	5	Duration	1	1 semester	Method of grading numer	ical grade	Modul level	graduate			
	Course	S			+ Ü (2)							
					le taught in: Germ							
	Method	d of ass	essment			approx. 60 to 120 minutes) or		\				
						approx. 20 pages) with preser ne candidate each (approx. 20		s) and subsequ	ent discussion on the topic) or			
						roups of up to 3 candidates (a		andidate)				
				Langu	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							
	Referre	d to in	LPO I	§ 22 l	l Nr. 3 b)							

10-l=A-	Selected Topics in Autonomous Mobile Systems												
KAMS-232-m01	ECTS 5	Duratio	1 semester	Method of grading numerical grade	Modul level	graduate							
	Courses	•	V (2) + Ü (2) Module taught in: Gern	nan and/or English	•								
	Method of as	sessment	b) project work (reportc) oral examination ofd) oral examination in	a) written examination (approx. 60 to 120 minutes) or 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 Inf	ormation	Focuses available for s	tudents of the Master's programme Informatik	(Computer Science, 12	o ECTS credits): LR, ES, KI.							
	Referred to in	LPO I	§ 22 II Nr. 3 b)										
10-l=ES-231-m01	Embedded Sy	stems											
	ECTS 5	Duration		Method of grading numerical grade	Modul level	graduate							
	Courses		√(2) + Ü(2) Module taught in: German and/or English										
	Method of as		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 Inf	ormation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,SE,ES,LR,GE										
	Referred to in	LPO I	§ 22 II Nr. 3 b)										
10-l=V-			mbedded Systems										
PES-232-m01	ECTS 5	Duratio		Method of grading numerical grade	Modul level	graduate							
	Courses		V (2) + Ü (2) Module taught in: German and/or English										
	Method of as	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 candidate). Language of assessment: German and/or English creditable for bonus										
	Additional Inf	ormation	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-l=DB2-242-m01	Databa	ses 2									
	ECTS	5	Duratio	n	1 semester	Method of grading nu	merical grade	Modul level	graduate		
	Course	S			+ Ü (2) ule taught in: Gerr	man and/or English					
				If anr of on date) Lang credi	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 candite). In a contract of the second or seco						
				Focus	ses available for s	students of the Master's pro	gramme Informatik (Computer Science, 120	o ECTS credits): SE, KI, HCI		
		d to in L		§ 22	II Nr. 3 b)			,			
10-l=IR-242-m01		ation Re									
		5	Duratio		1 semester	Method of grading nu	merical grade	Modul level	graduate		
	Course	S			((2) + Ü (2) Module taught in: German and/or English						
	Method of assessment			If anr of on date) Langi 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 cadate). 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						
	Referre	d to in L	LPO I	§ 22	§ 22 II Nr. 3 b)						
10-I=APR-252-m01		ed Prog	gramming								
	ECTS	5	Duratio		1 semester	Method of grading nu	merical grade	Modul level	graduate		
	Course				+ Ü (2)						
<u></u>	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						
	Additio	nal Info	rmation		ses available for s E, SEC, IN	tudents of the Master's pro	gramme Informatik (Computer Science, 12	o ECTS credits): SE, KI, LR, HCI,		

10-l=SEC-252-m01	Introdu	ction to	o IT Secur	ity				,			
	ECTS	5	Duration	า	1 semester	Method of grading numeric	al grade	Modul level	graduate		
	Course	5	•		+ Ü (2) ıle taught in: Engl	ish		•			
	Method	l of ass	essment	If anr of on date) Langi	vritten 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 of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candiate). anguage of assessment: English reditable for bonus ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SEC, IN						
	Additio	nal Info	ormation	Focus	ses available for s	tudents of the Master's program	me Informatik (Comp	uter Science, 12	o ECTS credits): SEC, IN		
	Referre	d to in I	LPO I	§ 22 l	II Nr. 3 b)						
10-l=EA-252-m01	Exact A	lgorith	ms								
	ECTS	5	Duration	า	1 semester	Method of grading numeric	al grade	Modul level	graduate		
	Course			Modu	/ (2) + Ü (2) Module taught in: German and/or English						
	Method of assessment			If anr of on date) Langu	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): AT						
	Referre	d to in	LPO I	§ 22 II Nr. 3 b)							
10-I=PNN-252-mo1	Prograi	mming	with neur	al nets	;						
ſ	ECTS	5	Duration	1	1 semester	Method of grading numeric	al grade	Modul level	graduate		
ſ	Course	S		V (2)	+ 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						
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE, IT, KI, HCI, GE, IN							

10-I=SB-252-m01	Systems Benchmarking										
	ECTS 5 Duration		n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses			V (2)	V (2) + Ü (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). Language of assessment: German and/or English							
	Additional Information			reditable for bonus Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE, IT, ES, HCI, GE, IN							
	Referre	d to in	LPO I	§ 22 Nr. 3 b)							
10-l=QC-252-m01	Quantu	ım Con	ımunicatio	ons		,					
	ECTS	5	Duration	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		V (2) + V (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 candidate). Language of assessment: English creditable for bonus							
	Additio	nal Inf	ormation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): LR							
10-I=RLCD- M-252-m01	Reinforcement Learning and Computational Decision Making										
	ECTS 5 Duration			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	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). Language of assessment: German and/or English creditable for bonus							
	Additional Information			Focus	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IN						
	Referred to in LPO I				§ 22 II Nr. 3 b)						

10-I=MIR-252-m01	Music Information Retrieval											
	ECTS	5	Duratio	า	1 semester	Method of grading nur	nerical grade	Modul level	graduate			
	Course	S		V (2) + Ü (2) Module taught in: German and/or English								
	Method	d of asse	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) 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): GE								
	Referre	d to in L	LPO I	§ 22 II Nr. 3 b)								
10-LURI=D-	Digital Signal Processing											
SP-252-m01	ECTS 5 Duration			า	1 semester	Method of grading nur	nerical grade	Modul level	graduate			
	Courses			V (2) + Ü (2) Module taught in: German 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 candidate). Language of assessment: German and/or English creditable for bonus								
10-I-PLR-252-m01	Practical work Space Technology											
	ECTS	5	Duration	า	1 semester	Method of grading (no	t) successfully completed	Modul level	undergraduate			
	Courses		P (2)									
	Method of assessment			report (5 to 10 pages) and presentation (approx. 15 minutes) on practical work								
10-LURI=IR- P-252-m01	Intelligent Rocket Propulsion Systems											
	ECTS	5	Duratio		1 semester	Method of grading nur	nerical grade	Modul level	graduate			
	Courses			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 candidate). Language of assessment: German and/or English creditable for bonus								

10-I=DRLIS- S-252-m01	Deep Reinforcement Learning for Intelligent Space Systems										
	ECTS 5 Duration		on	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			V (2) + Ü (2) Module taught in: German and/or English							
	Method o	fassessmen	If anr of on date) Lange	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							
10-LURI=F-	Flight Control										
CS-252-m01	ECTS 10	o Durati	on	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			V (4) + Ü (2) Module taught in: German and/or English							
		f assessmen	If anr of on date) Langi	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							
10-LURI=F-	Flight Gui	idance									
G-252-m01	ECTS 5	Durati	on	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			V (2) + Ü (2) Module taught in: German and/or English							
	Method o	f assessmen	If anr of on date) Lange	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							
10-LU- RI=UAS-252-m01	UAS Oper	ations		,			,				
	ECTS 10 Duratio		on	2 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	,	R (8) Modu	R (8) Module taught in: German and/or English							
	Method o	f assessmen	Langi	project report (10 to 15 pages) and presentation of project (15 to 30 minutes) Language of assessment: German and/or English creditable for bonus							