

Annex SFB

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

Responsible: Faculty of Mathematics and Computer Science

Responsible: Institute of Computer Science

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.

Examination regulations version: 2024

Examination regulations version: 2024

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

ASP02015

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

31-Jan-2024 (2024-8)

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

Every module will be described using the following form:

Abbreviation	Module title											
	ECTS		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 information		on if applica	if applicable								
	Referred to in	n LPO I	if applica	if applicable (examination regulations for teaching-degree programmes)								

Compulsory Cours	ses (35 EC	CTS cred	lits)									
10-xtAl=L1-242-	AI&XR	Lab 1										
mo1	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Mo	odul level	graduate		
	Course	!S		R (3) Modu	le taught in: English							
	Method	d of ass	essment	Langu	Project: report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic Language of assessment: English Creditable for bonus							
10-xtAl=L2-242-	AI&XR	Lab 2	1									
mo1	ECTS	10	Duration	n	1 semester	Method of grading	numerical grade	Mo	odul level	graduate		
	Courses			R (6) Modu	(6) lodule taught in: English							
	Method	d of ass	essment	Langu	Project: report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic Language of assessment: English Creditable for bonus							
10-xtAl=L3-242-	AI&XR	AI&XR Lab 3										
mo1	ECTS 10 Duratio			n	1 semester	Method of grading	numerical grade	Mo	odul level	graduate		
	Course	Courses			R (6) Module taught in: English							
	Method	d of ass	essment	Langu	ct: report (approx. 20 lage of assessment: table for bonus	o pages) with presen English	tation (30 to 45 minu	utes) and subse	equent disc	ussion on the topic		
10-xtAl=IAl-202-	Introdu	uction ir	Al					,				
mo1	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Mo	odul level	graduate		
	Course	Courses			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-xtAl=M-	Machin	Machine Learning												
L1-242-m01	ECTS	5	Duratio	n	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	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: English Creditable for bonus									
Electives Field (55	ECTS cre	dits)												
AI&XR Seminars (min. 5 to	max. 10	ECTS cre	dits)										
10-	Semina	ar 1 - Ar	tificial Int	ellige	nce & Extended R	eality								
xtAl=SEM1-242-	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate					
m01	Course	S		S (2) Modu	S (2) Module taught in: English									
	Method	d of ass	essment	Lang	Term paper (10 to 15 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic Language of assessment: English Creditable for bonus									
10-	Semina	Seminar 2 - Artificial Intelligence & Extended Reality												
xtAl=SEM2-242-	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate					
m01	Course	S		S (2) Module taught in: English										
	Method	d of ass	essment	Lang	Term paper (10 to 15 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic Language of assessment: English Creditable for bonus									
Core Al Methods (min. 10 to	o max.	35 ECTS c	redits)										
10-xtAl=DS1-202-	Data So	cience :	ı											
mo1	ECTS	5	Duratio	n	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	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-xtAl=DS2-202-	Data Science 2													
mo1	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate						
	Course	S		V (2) - Modu	+ Ü (2) le taught in: Englis	h		_						
				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 candidate). Language of assessment: English Creditable for bonus									
10-xtAl=M-		ed Mac	hine Lear	ning		_								
L2-242-m01	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	graduate						
	Course	S			V (2) + Ü (2) Module taught in: English									
	Method of assessment			If ann of one date). Langu Credit	Written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: English Creditable for bonus									
10-xtAl=NLP1-202-	Natural	Natural Language Processing 1												
mo1	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	graduate						
	Course	s 		V (2) - Modu	+ Ü (2) le taught in: Englis	h		-						
	Method of assessment			If ann of one date).	ounced by the lecti e candidate each (a	orox. 60 to 120 minutes) urer at the beginning of the course, the written e upprox. 20 minutes) or an oral examination in gro								
10-xtAl=NLP2-202-	Natural	Langua	age Proce	ssing	2									
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	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: English Creditable for bonus										

10-xtAl=TAl1-202-	Theory of Artificial Intelligence 1													
mo1	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	е	Modul level	graduate					
	Courses	5		V (2) - Modu	+ Ü (2) le taught in: Englis	h								
			essment	If ann of one date). Langu Credit	Written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: English Creditable for bonus									
10-xtAl=TAl2-202-			icial Intel	igence	2									
mo1	ECTS	5	Duration		1 semester	Method of grading numerical grade	e	Modul level	graduate					
	Courses	5			/ (2) + Ü (2) Module taught in: English									
				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 candidate). Language of assessment: English Creditable for bonus									
10-AI=CV1-242-	Comput	Computer Vision 1												
mo1	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	e	Modul level	graduate					
	Courses			V (2) + Ü (2) Module taught in: English										
	Method	of ass	essment	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 e of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes date). Language of assessment: English Creditable for bonus									
10-AI=CV2-242-	Comput	ter Visi	on 2											
mo1	ECTS	5	Duration		1 semester	Method of grading numerical grade	e	Modul level	graduate					
	Courses	5		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-l=MLN1-232-	Machin	e Learn	ing for Net	tworks	5 1						
mo1	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V (2) + Ü (2) Module taught in: English							
	Method	l of asso		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	nal Information Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,IT,SE,KI,HCI,II								
10-l=MLN2-232-		chine Learning for Networks 2									
mo1	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V (2) + Modu	- Ü (2) le 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 Info	rmation	Focus	es available for stud	lents of the Master's	programme Informatik (Comp	uter Science, 120	ECTS credits): AT,IT,SE,KI,HCI,IN		
10-l=IP-222-m01	Image I	Process	ing and Co	omput	ational Photograph	у					
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	s 		V (2) + Modu	- Ü (2) le 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=RLCD-	Reinforce	ement Learnin	g and C	and Computational Decision-Making								
M-222-m01	ECTS 5	Durati	on	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			+ Ü (2) ıle taught in: Germar	n and/or English							
	Method o	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 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=M-	Multiling	ual NLP					'					
NLP-222-m01	ECTS 5	Durati	on	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			+ Ü (2) ıle taught in: Germar	n and/or English							
		of assessment	If anr of on date) Lang Credi	written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: English Creditable for bonus								
	Selected Topics in AI Methods 1											
mo1	ECTS 5	Durati		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			V (2) + Ü (2) Module taught in: English								
	Method o	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 of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 m date). Language of assessment: English Creditable for bonus								
10-xtAl=AlM2-202-	Selected	Topics in Al M	lethods	3 2								
mo1	ECTS 5	Durati	on	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			V (2) + Ü (2) Module taught in: English								
	Method o	f assessment	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 examinat 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-HCI-PRIS-212-	(min. 10 to max. 20 ECTS credits) Principles of Interactive Systems										
10-HCI-PRIS-212- mo1							1				
11101	ECTS 5	5 Dur	ation	1 semester Method of grading numerical grade Modul level graduate (2) + Ü (2)							
	Courses				an and for English						
	Mothodo	of assessm		Module taught in: German and/or English a) written examination (approx. 90 minutes) or							
	Method	Ji assessiii		b) oral examination of one candidate each (approx. 30 minutes)							
			Lang	uage of assessmen	t: German and/or English						
				creditable for bonus							
10-HCI-MMI-212-		dal Interfa	es								
mo1	ECTS 5	5 Dur	ation	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses			+ Ü (2)	d / For - link						
	20 (1 1	•		Module taught in: German and/or English							
	Method	of assessm			approx. 90 minutes) or ct results (approx. 30 minutes) or						
				c) oral examination of one candidate each (approx. 30 minutes)							
			Lang	uage of assessmen	t: German and/or English						
			cred	itable for bonus							
10-HCl-3DUl-212-	3D User Interfaces ECTS 5 Duration 1 semester Method of grading numerical grade Modul level graduate										
mo1	ECTS 5	; Dur	ation	1 semester	Modul level	graduate					
	Courses			V(2) + Ü(2) Modulo taught in Corman and /or English							
	NA 41 1	<u> </u>		Module taught in: German and/or English							
	Method	of assessm		a) presentation of project results (approx. 30 minutes) or b) oral examination of one candidate each (approx. 30 minutes)							
				Language of assessment: German and/or English							
			cred	itable for bonus	· ·						
10-xtAl=XR-	Selected	Topics in 2	R Method	ls			_				
M-202-m01	ECTS 5	Dur	ation	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses			+ Ü (2)							
				Module taught in: English							
	Method o	of assessm		a) Written examination (approx. 60 to 90 minutes) or b) Project: 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 of one candidate each (approx. 20 fillinates) of							
			Lang	guage of assessmen		•					
			Cred	Creditable for bonus							

10-LU-	3D Poi	nt Cloud	Processi	ing								
RI=3D-202-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	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 candidate). Language of assessment: German and/or English creditable for bonus								
10-LURI=PHO-	Photog	ramme	tric Mach	ine Vis	ion							
TO-232-m01			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	d of asso	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 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							
10-LU-	Autono	mous N	lobile Sy:	stems	tems							
RI=AMS-232-m01	ECTS	10	Duratio	n	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 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								
	Additio	nal Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT, KI, ES, LR, GE								

10-LU-	Roboti	CS 1	'									
RI=RO1-232-mo1	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							
				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							
			ormation		es available for stu , LR, HCI, GE	udents of the Master's programme Informatik (C	Computer Science, 12	o ECTS credits):				
10-LU-	Roboti	CS 2										
RI=RO2-232-mo1	ECTS	10	Duration		1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses				V (4) + Ü (2) + P (1) Module taught in: German and/or English							
	Method of assessment			If ann of one 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							
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): KI, ES, LR, HCI, GE								
10-l=DB2-212-m01	Databa	ses 2	1									
	ECTS	5	Duration	1	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). creditable for bonus Language of assessment: German and/or English								
	Additio	nal Info	ormation	Focus	es available for stu	udents of the Master's programme Informatik (C	Computer Science, 12	o ECTS credits): SE,KI,HCI				

10-I=DRLOC-221-	Deep Re	einforce	ement Lea	rning	for Optimal Contro	ol		-				
mo1	ECTS	5	Duration	า	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses	;			+ Ü (2) ule taught in: Englis	sh						
	Method	of asse		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: English creditable for bonus							
10-xtAl=SAC-202-	Self-aw	are Con	nputing									
mo1	ECTS	5	Duration	า	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses	;			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 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: English Creditable for bonus								
10-l=ICG-232-m01	Interactive Computer Graphics											
	ECTS	5	Duration	า	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 exof 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							
	Addition	nal Info	rmation	Focus	ses available for st	udents of the Master's programme Informatik (Computer Science, 12	o ECTS credits): HCI.				
10-xtAl=WPrak-	Scientif	ic Inter	nship Al8	kΧR								
t-242-m01	ECTS 10 Duratio			า	1 semester	Method of grading (not) successfully comp	oleted Modul level	graduate				
	Courses			P (6)								
				Report on practical course (approx. 10 pages) with presentation (30-45 min.) and subsequent discussion on the topic Language of assessment: German and/or English								
				Lang	uage of assessifier	it. German and/or English						

10-xtAl=IS-	Interna	ational	Summer S	chool	AI&XR								
S-242-m01	ECTS	5	Duration	ı	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	25		R (6) Modu	(6) Nodule taught in: English								
	Metho	d of ass	sessment	b) Pro c) Ora d) ora	a) Written examination (approx. 60 to 120 minutes) or b) Project: 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 (max. 3 candidates, each approx. 15 minutes) Language of assessment: English								
					ct will be block ta	ught, 4 - 6 weeks							
07-MLBI-202-m01		ne Lear	ning in Bio		natics								
	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	! S		` '	/ (2) + Ü (2) Nodule taught in: English								
	Metho	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								
	Participants and allocation of places			10 pla	10 places. Should the number of applications exceed the number of available places, places will be allocated by lot.								
10-xtAl=ST-242-	Select	ed Topi	cs in Al&X	R Appl	ication & Techno	logies							
mo1	ECTS	5	Duration	ı	1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses			V (2) + Ü (2) Module taught in: English									
	Metho	d of ass	sessment	a) Written examination (approx. 60 to 90 minutes) or b) Project: 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 (max. 3 candidates, each approx. 15 minutes) Language of assessment: English Creditable for bonus									

10-l=MIR-222-m01	Music Information Retrieval											
10 1 WIII 222 IIIO1	ECTS 5 Duration			1 semester	Method of grading numerical grade	Modul level	graduate					
	Course			$V(2) + \ddot{U}(2)$ Module taught in: German and/or English								
	Method	d of ass	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	ormation	possible majors for MA 120 Computer Science: GE								
10-l=RRS-232-m01	Remote Sensing											
	ECTS	5	Duration	1	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			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 EnglishCreditable for bonus								
	Additio	nal Info	ormation	possible majors for MA 120 Computer Science: LR,IN								
Computer Science	(min. o t	o max.	10 ECTS c	redits)								
10-l=ST-232-m01	Discrete Event Simulation											
	ECTS 5 Duratio			1	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								
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT,KI,ES,GE,IN								

10-l=SSS-232-m01	Cocurit	v of So	ftwara Eve								
10-1=333-232-11101		<u> </u>									
	ECTS 5 Duration				1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V (2) -		- h					
				Module taught in: 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 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): SE,KI,LR, HCI, ES, SEC,IN							
10-I=DDB-172-m01	Deduct	ive Dat	abases					'			
	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	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, SE, IT, IS.							
10-l=LP-212-m01	Logic Programming										
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		$V(2) + \ddot{U}(2)$							
				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 Language of assessment: German and/or English							
	Additio	nal Info	rmation	Focus	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,SE,IT,KI						

10-I=SB-212-m01	Systems Benchmarking										
	ECTS 5 Duration		Duration	า	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)							
	Addition	lInfo	rmation	date). creditable for bonus Language of assessment: German and/or English							
				Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE,IT,ES,HCI,GE							
10-I=APR-212-m01			gramming								
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	:S		V (2)	+ Ü (2)						
	Metrio			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 Language of assessment: German and/or English							
				Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE,KI,LR, HCI, ES,GE,SEC							
10-l=AKII-232-m01	Selected Topics in Computer Science										
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	:S		V (2)	+ Ü/S (2)			,			
	Method	d of ass	essment	a) written examination (approx. 60 to 120 minutes) or b) practical project (project documentation (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							
Master Project Mod											
10-xtAl=MA-242-			is AI&XR		1						
mo1	ECTS 25 Duration			1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course				3						
	Method	d of ass	essment	Master-Thesis (50-100 S.) Language of assessment: English							
	Additio	nal Info	rmation	Time to complete: 6 month							

	Concluding Colloquium AI&XR											
K-242-mo)1	ECTS 5 Duration		1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
		Courses			K (o)							
		Method	Method of assessment			Final colloquium (approx. 60 minutes)						
					Langu	age of assessment:	English					