

Annex SFB

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

Responsible: Faculty of Mathematics and Computer Science Responsible: Institute of Computer Science Examination regulations version: 2024 Examination regulations version: 2024

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

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

ASPO2015

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

??-???-2024 (2024-??)

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 of		Il if applica	if applicable							
	Other prereq	uisites	if applica	if applicable							
	Participants on of places		ocati- if applica	if applicable							
	Additional information		on if applica	if applicable							
	Referred to in	n LPO I	if applica	ble (examination re	gulations for teaching	g-degree programmes)					

10-AI=IAI-242-m01	Introdu	iction i	n Al									
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	-	1		(2) + Ü (2) lodule taught in: German and/or English							
	Metho	d of ass	essment	Writte If ann of on date) Lang	Written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English Creditable for bonus							
10-AI=ML-242-m01	Machir											
	ECTS 5 Duratio			n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses				+ Ü (2) Ile taught in: Germa	an 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-AI=SEM1-242-	Seminar Artificial Intelligence											
n01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (2) Module taught in: German and/or English								
	Metho	d of ass	essment	Langi	Term paper (10 to 15 pages) and presentation (30 to 45 minutes) followed by a discussion on the topic Language of assessment: German and/or English Creditable for bonus							
10-Al=P1-242-m01	Al Proj	ect 1										
	ECTS 10 Duratio		n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			R (6) Modu								
	Method of assessment			Project: report (approx. 10 to 20 pages) with presentation (30 to 45 minutes) followed by a discussion on the topic Language of assessment: German and/or English Creditable for bonus								

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10-AI=P2-242-m01	Al Project 2	ect 2										
	ECTS 10	Duratio	n	1 semester	Method of grading n	umerical grade	Modul level	graduate				
	Courses		R (6) Modu	le taught in: Germar	n and/or English							
	Method of ass	essment	utes) followed by a di	scussion on the topic								
Electives Field (55	lectives Field (55 ECTS credits)											
KI Methods (min. 2	Methods (min. 20 to max. 40 ECTS credits)											
10-Al=DS1-242-	Data Science 1											
m01	ECTS 5	Duratio	n	1 semester	Method of grading n	umerical grade	Modul level	graduate				
	Courses			V (2) + Ü (2) Module taught in: German and/or English								
	Method of ass		If anne of one date). Langu		the course, the written e n oral examination in gr		replaced by an oral examination 6 (approx. 15 minutes per candi-					
10-AI=DS2-242-	Data Science 2											
m01	ECTS 5 Duratio			1 semester	Method of grading n	umerical grade	Modul level	graduate				
	Courses		V (2) + Ü (2) Module taught in: German and/or English									
	Method of ass		Written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English Creditable for bonus									
10-AI=AM-	Advanced Mac	hine Lea	ning 1									
L1-242-m01	ECTS 5	Duratio		1 semester	Method of grading n	umerical grade	Modul level	graduate				
	Courses		V (2) + Modu	- Ü (2) le taught in: Germar	n and/or English			_				
	Method of ass	essment	Written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English Creditable for bonus									

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10-AI=AM-	Advanced Ma	Advanced Machine Learning 2										
L2-242-m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			+ Ü (2) le taught in: Germaı	n and/or English							
	Method of ass		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-AI=NLP1-242-	Natural Langu	age Proce	essing	1								
m01	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			/ (2) + Ü (2) Nodule taught in: German and/or English								
	Method of ass		Written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English Creditable for bonus									
10-AI=NLP2-242-	Natural Langu	age Proce	essing	2				_				
m01	ECTS 5 Duratio			1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			V (2) + Ü (2) Module taught in: German and/or English								
	Method of ass	sessment	Written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English Creditable for bonus									
10-AI=TAI1-242-	Theory of Arti	ficial Intel	ligence	e 1								
m01	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		· · ·	+ Ü (2) le taught in: Germaı	n and/or English							
	Method of ass	sessment	Written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English Creditable for bonus									

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10-AI=TAI2-242-	Theory of Artif	icial Intell	ligence	e 2						
m01	ECTS 5	Duratior	า	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		V (2) - Modu	+ Ü (2) le taught in: Germa	n and/or English		* 			
	Method of ass	essment	Writte	n examination (app	prox. 60 to 120 minute	es)				
			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-Al=CV1-242-	Computer Visio	on 1								
m01	ECTS 5	Duratior	า	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		Modu	V (2) + Ü (2) Module taught in: English						
	Method of ass		Written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: English Creditable for bonus							
10-AI=CV2-242-	Computer Vision 2									
m01	ECTS 5	Duratior	า	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		V (2) + Ü (2) Module taught in: English							
	Method of ass	essment	Written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: English Creditable for bonus							
10-I=MLN1-232-	Machine Learn	ing for Ne	etwork	S 1						
m01	ECTS 5	Duratior	า	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		V (2) - Modu	+ Ü (2) le taught in: Englisl	1					
	Method of ass		written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: English creditable for bonus							
	Additional Info	ormation	Focus	es available for stu	dents of the Master's	programme Informatik (Comp	uter Science, 12	o ECTS credits): AT,IT,SE,KI,HCI,IN		
Master's with 1 major Art	ificial Intelligence (202	()				IMII Würzburg ● generated 20-Mär-2	024 • exam reg data i	record 88/221-1-1-11/2024 page 6 / 18		

10-I=MLN2-232-	Machine Learr	ning for N	etwork	5 2						
m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			+ Ü (2) Ile taught in: English						
	Method of ass	essment	If ann of one date). Langu	anguage of assessment: English reditable for bonus						
	Additional Info	ormation	Focus	es available for stuc	lents of the Master's	programme Informatik (Com	puter Science, 120	ECTS credits): AT,IT,SE,KI,H	ICI,IN	
10-l=lP-222-m01	Image Process	sing and C	Comput	tational Photograph	у					
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			(2) + Ü (2) odule taught in: English						
	Method of ass		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: English Creditable for bonus						
10-I=RLCD-		t Learning	g and C	omputational Decisi	on Making					
M-232-m01	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		V (2) + Ü (2) Module taught in: German and/or English							
	Method of ass	essment	If ann of one date) Langu	written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English Creditable for bonus						
10-I=M-	Multilingual N	LP								
NLP-232-m01	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			+ Ü (2) Ile taught in: Germar	n and/or English					
	Method of ass	essment	If ann of one date). Langu	written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: English Creditable for bonus						
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10-AI=A-	Select	ed Topic	s in Al Mo	ethods	1						
KAIM1-242-m01	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Cours	es			+ Ü (2)						
					Module taught in: German and/or English						
	Metho	od of ass	essment	a) written examination (approx. 60 to 120 minutes) or							
				b) project: report (approx. 20 pages) with presentation (30 to 45 minutes) followed by a 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).						
				Langu	anguage of assessment: German and/or English						
					Creditable for bonus						
10-Al=A-		<u> </u>	s in Al Mo								
KAIM2-242-m01	ECTS 5 Duratio				1 semester	Method of grading	numerical grade	Modul level	graduate		
	Cours	es			V (2) + Ü (2) Module taught in: German and/or English						
	Metho	od of ass	essment		a) written examination (approx. 60 to 120 minutes) or b) project: report (approx. 20 pages) with presentation (30 to 45 minutes) followed by a discussion on the topic or						
				c) oral examination of one candidate each (approx. 20 minutes) or							
				d) ora	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						
		•	_								
General KI Applica					redits)						
10-l=3D-232-m01	-	int Clouc	l Processi				1		-		
	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Cours	es			V (2) + Ü (2)						
				Module taught in: English							
	Metho	od of ass	essment	written examination (approx. 60 to 120 minutes).							
				If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-							
				date).	date).						
						: German and/or Engl	lish				
	A .1 .1.1				able for bonus		······································	ten Calanaa			
	Additi	onal info	ormation	Focus	es available for stud	dents of the Master's	programme Informatik (Comp	uter Science, 120	o ECIS credits): KI,LK,HCI,GE		

10-LURI=PHO-	Pho	togra	ammet	ric Mach	: Machine Vision								
TO-232-m01	ECT	S 5	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Cou	irses				/ (2) + Ü (2) Nodule taught in: German and/or English							
	Met	hod o	of asse	essment	lf ann of one date). Langu	written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English Creditable for bonus							
10-LU-	Aut	Autonomous Mobile Systems											
RI=AMS-232-mo1	ECT	S 1	LO	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Cou	irses				V (4) + Ü (2) Module taught in: German and/or English							
	Method of assessment				written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English Creditable for bonus								
				rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT, KI, ES, LR, GE								
10-LU-		otics	51										
RI=R01-232-m01	ECT	S 5	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
		irses			V (2) + Ü (2) Module taught in: German and/or English								
	Method of assessment				written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English								
	Add	lition	al Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): KI, ES, LR, HCI, GE								

10-LU-	Roboti	CS 2				,					
RI=R02-232-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						
	Metho	d of ass	essment	lf ann of one date). Langu	written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus						
	Additic	onal Info	ormation		ses available for stu , LR, HCI, GE	dents of the Master's	programme Informatik	(Computer Science, 120	o ECTS credits):		
10-I=DB2-242-m01	Databa	ses 2									
	ECTS 5 Duratio			1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses				/ (2) + Ü (2) Aodule taught in: German and/or 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 candi- date). Language of assessment: German and/or English Creditable for bonus						
	Additic	onal Info	ormation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE,KI,HCI							
10-I=DRLOC-221-	Deep R	einforc	ement Lea	arning	for Optimal Control						
m01	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V (2) + Ü (2) Module taught in: English							
	Metho	d of ass	essment	lf ann of one date). Langu	written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: English creditable for bonus						

10-l=IR-242-m01	Informa	ation Re	trieval								
	ECTS	5	Duration	า	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 candi-						
				date).							
				Language of assessment: German and/or English Creditable for bonus							
	Additio	nal Info	rmation		es available for stud HCI, GE	dents of the Master's programme Informatik (Com	puter Science, 12	o ECTS credits):			
10-AI=SAC-242-	Self-av	vare Cor	nputing								
m01	ECTS	5	Duration	า	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		V (2) + Ü (2)							
					le taught in: Germai						
	Methoo	d of asso	essment	Written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-							
				date).							
				Language of assessment: German and/or English Creditable for bonus							
10-l=lCG-232-m01	Interac	tive Cor	nputer Gr								
	ECTS	5	Duration	-	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S	<u> </u>	V (2) +	- Ü (2)	,		•			
	Method	d of ass	essment	writte	n examination (app	rox. 60 to 120 minutes).					
						rer at the beginning of the course, the written exa					
				of one date).	of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate)						
				Langu	date). 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 (Com	puter Science, 12	o ECTS credits): HCI.			

07-MLBI-202-m01	Machin	e Learn	ing in Bio	oinform	natics						
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	5			V (2) + Ü (2)						
				Module taught in: English							
	Method	of ass	essment	Written examination (approx. 60 to 120 minutes)							
				If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-							
				date).							
				Language of assessment: English							
	Particip	ante ar			Creditable for bonus 10 places. Should the number of applications exceed the number of available places, places will be allocated by lot.						
	cation of			10 pta		inder of applications		ie places, places	s will be allocated by lot.		
10-AI=AKA-	Selecte	d Topic	s in Al Ap	plicati	on & Technologies						
KI-242-m01	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	5		V (2) + Modu	+ Ü (2) le taught in: Germa	n and/or English					
	Method	of ass	essment		-	_	utes) or				
				b) project: report (approx. 20 pages) with presentation (30 to 45 minutes) followed by a discussion on the topic or							
				c) oral examination of one candidate each (approx. 20 minutes) or							
				d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English							
					able for bonus						
10-I=MIR-232-m01	Music I	nforma	tion Retri	eval							
	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	5			/ (2) + Ü (2) Aodule taught in: German and/or English						
	Method	ofass	essment			pprox. 60 to 120 min	utes) or				
				b) ora	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						
10-I=RRS-232-m01	Remote	Sensir	ng						_		
_		5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	5			+ Ü (2)	•		•			
					le taught in: Germa						
	Method	ofass	essment			rox. 60 to 120 minute		inction may be	replaced by an oral examination		
									s (approx. 15 minutes per candi-		
				date).							
		1			-	-	lishCreditable for bonus				
	Additio	nal Info	ormation	possi	ble majors for MA 12	20 Computer Science	: LR,IN				
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10-AI=SEM2-242-	Semi	nar Al Ap	plication	s							
m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Cours	ses		S (2) Modu	S (2) Module taught in: German and/or English						
	Meth	od of ass	sessment	Langu	Term paper (10 to 15 pages) and presentation (30 to 45 minutes) followed by a discussion on the topic Language of assessment: German and/or English Creditable for bonus						
KI Applications for	m App	lication-o	oriented S	ubject	s (min. o to max. 10	ECTS credits)					
04-GEO-	Infor	mation s	ciences in	Remot	e Sensing						
OMA23-242-mo1	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level			
	Cours	ses			S (1) + Ü (1) Nodule taught in: English						
	Meth	od of ass	sessment	b) pre c) terr Langu ble, d	 a) presentation (approx. 30 minutes) or b) preparing a poster (approx. 10 hours total) or c) term paper (15 pages) Language of assessment: English or German (assessment will be held in English; in addition, the examiner may, where possible, decide to hold assessment in German) creditable for bonus 						
04-GEO-	Al ap	proaches	s in Earth	Observ	ation						
OMA25-242-m01	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level			
	Cours	ses			S (1) + Ü (1) Module taught in: English						
	Meth	od of ass	sessment	b) pre c) terr Langu ble, d	a) presentation (approx. 30 minutes) or b) preparing a poster (approx. 10 hours total) or c) term paper (15 pages) Language of assessment: English or German (assessment will be held in English; in addition, the examiner may, where possi- ble, decide to hold assessment in German) creditable for bonus						

12-M-EAI-242-m01	Enterp	rise Al									
	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level				
	Course	S		V (2) + Ü (2) Module taught in: English							
	Methoo	d of ass		b) terr c) ora d) por Langu Asses	a) written examination (approx. 60 minutes) or b) term paper (approx. 15 pages) or c) oral examination of one candidate each (approx. 20 minutes) or d) portfolio (approx. 50 hours) .anguage of assessment: English Assessment offered: In the semester in which the course is offered creditable for bonus						
		oants an of place	25	 Number of places: 35. Should the number of applications exceed the number of available places, places will be allocated as follows: (1) Students who already have successfully completed courses offered by the supervising chair will be given preferential consideration. a. Among applicants with the same number of successfully completed modules, places will be allocated according to the total number of ECTS credits achieved in the corresponding modules. b. When places are allocated in accordance with 1.b) and the number of applications exceeds the number of available places, places will be allocated according to the average grade of assessments taken in the corresponding courses. c. Among applicants with the same average grade, places will be allocated by lot. (2) Any remaining places are available to students who have not yet successfully completed any courses of the supervising chair. The selection is made according to study progress (number of semesters); among applicants with the same number of semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated as they become available. 							
12-M-DSS-242-	Decisio	on Supp	ort Systen	ns		· · · · ·	· ·				
m01			Duration		1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses			V (2) + Ü (2) Module taught in: English							
	Methoo	d of ass		a) written examination (approx. 60 minutes) or b) oral examination (one candidate each: approx. 10 to 15 minutes, groups of 2: approx. 20 minutes, groups of 3: approx. 30 minutes) Language of assessment: English creditable for bonus							

03-M-KI-242-m01	Medical AI Applications											
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level				
	Course	S			V (2) + Ü (2) Module taught in: German and/or English							
	Methoc	l of ass	essment	lf 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 candi- date). Language of assessment: German and/or English Creditable for bonus							
	Particip cation o	of place	s	50 (lo								
Computer Science	-											
10-l=ST-232-m01			Simulati									
		5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	-			+ Ü (2)							
	Method	101033	cosment	lf 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 candi- date). Language of assessment: German and/or English creditable for bonus							
	Additio	nal Info	ormation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT,KI,ES,GE,IN								
10-I=SSS-232-m01	Securit	y of Sol	ftware Sy	stems								
	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (2) + Ü (2) Module taught in: English								
				written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: English creditable for bonus								
	Additio	nal Info	ormation	Focus SEC,I		students of the Master'	s programme Informati	k (Computer Science, 120	DECTS credits): SE,KI,LR, HCI, ES,			

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10-I=DDB-212-m01	Deduc	tive Dat	abases									
	ECTS	5	Duratio	n	1 semester	Method of grading nu	merical grade	Modul level	graduate			
	Cours	es		V (2) -	+ Ü (2)							
	Metho	od of ass	essment	If ann of one date). credit Langu	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). creditable for bonus Language of assessment: German and/or English							
	Additi	onal Info	ormation	Focus	es available for stu	idents of the Master's pro	gramme Informatik (Compu	iter Science, 120	e ECTS credits): AT,SE,IT,KI			
10-I=LP-212-m01	Logic	Program	ming									
	ECTS	5	Duratio		1 semester	Method of grading nu	merical grade	Modul level	graduate			
	Cours			V (2) -	+ Ü (2)							
	metho		essment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). creditable for bonus Language of assessment: German and/or English								
	Additi	onal Info	ormation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,SE,IT,KI								
10-I=SB-212-m01	Syste	ms Benc	hmarking									
	ECTS	5	Duratio		1 semester	Method of grading nu	merical grade	Modul level	graduate			
	Cours			.,	+ Ü (2)							
	Metho	od of ass	essment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). creditable for bonus Language of assessment: German and/or English								
	Additi	onal Info	ormation		es available for stu ES,HCI,GE	udents of the Master's pro	gramme Informatik (Compu	iter Science, 120	ECTS credits):			

10-I=APR-212-m01	Advanc	ed Prog	gramming	5							
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		V (2)	+ Ü (2)	- <u>·</u>	·				
	Method	l of asse	essment	lf anr of on date) credi	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). creditable for bonus Language of assessment: German and/or English						
			ormation	ES,G	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE,KI,LR, HCI, ES,GE,SEC						
10-I=AKII-232-m01	Selecte	ed Topic	s in Com	outer S	Science						
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		V (2)	+ Ü/S (2)						
				on or c) ora d) ora Lang credi	 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 						
10-HCI-PRIS-212-		les of Ir	nteractive	Syste	ms						
m01	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		V (2) + Ü (2) Module taught in: German and/or English							
	Methoo	d of asse	essment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 30 minutes) Language of assessment: German and/or English creditable for bonus							
10-HCI-MMI-212-	Multim	odal Int	terfaces								
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	l of asse	essment	b) pro c) ora Lang	a) written examination (approx. 90 minutes) or b) presentation of project results (approx. 30 minutes) or c) oral examination of one candidate each (approx. 30 minutes) Language of assessment: German and/or English creditable for bonus						

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10-HCI-3DUI-212-	3D Use	er Interfa	aces										
m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	!5	_		V (2) + Ü (2)								
				Modu	Module taught in: German and/or English								
	Methoo	d of asse	essment	b) ora Langu	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 creditable for bonus								
Master Project Mod	dules (30	o ECTS o	credits)										
10-AI=MA-242-	Master	Master's Thesis Artificial Intelligenz											
m01	ECTS	ECTS 25 Duratio		n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	!S		no courses assigned									
	Method	Method of assessment			Master-Thesis (50 to 100 pages) Language of assessment: German and/or English								
	Additic	onal Info	rmation	Time to complete: 6 months.									
10-AI=M-	Conclu	ding Co	lloquium	Artificial Intelligence									
K-242-m01	ECTS	5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Course	!S	_	К (о)									
	Method of assessment			final colloquium (approx. 60 minutes) Language of assessment: German and/or English									