

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

Abbreviations used: Course types: **E** = field trip, **K** = colloquium, **O** = conversatorium, **P** = placement/lab course, **R** = project, **S** = seminar, **T** = tutorial, **Ü** = exercise, **V**

= lecture

Term: **SS** = summer semester. **WS** = winter semester

Methods of grading: **NUM** = numerical grade, **B/NB** = (not) successfully completed

Regulations: **(L)ASPO** = general academic and examination regulations (for teaching-degree programmes), **FSB** = subject-specific provisions, **SFB**

= list of modules

Other: A = thesis, LV = course(s), PL = assessment(s), TN = participants, VL = prerequisite(s)

Conventions for the 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)):

??-???-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	o be specified in the form X (y) with course type X abbreviated as specified above and number of weekly contact hours y							
	Method of as	ssessme	ent								
	Only after su completion o		l if applica	if applicable							
	Other prereq	uisites	if applica	if applicable							
	Participants and allocation of places		cati- 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 Course	es (35 ECT	S credits)								
10-Al=IAl-242-m01	Introduct	tion in Al								
,	ECTS 5		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		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-Al=ML-242-mo1	Machine	Learning	,	,		'				
	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses	·		+ Ü (2) le taught in: Germa	ın 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 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 Intell	gence							
mo1	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses		S (2) Modu	le taught in: Germa	ın and/or English					
	Method	of assessment	Langi		es) and presentation (30 to 45 minutes) f :: German and/or English	followed by a discussion c	on the topic			
10-Al=P1-242-m01	Al Projec	t 1		"		'	,			
	ECTS 1	o Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses	,	R (6) Module taught in: German and/or English							
	Method o	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							

10-AI=P2-242-m01	21 Al Project 2											
	ECTS	10	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	?S		R (6) Modu	le taught in: Germa	nn and/or English		•				
	Metho	d of ass	essment	Langu	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							
Electives Field (55	ECTS cre	edits)										
KI Methods (min. 2	o to ma	x. 40 EC	TS credits	 s)								
10-Al=DS1-242-	Data S	cience 1	L									
mo1	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	!S			(2) + Ü (2) odule taught in: German and/or English							
	Metho	d of ass	essment	If ann of one date). Langu	Written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English Creditable for bonus							
10-Al=DS2-242-	Data S	cience 2	2									
mo1	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course				+ Ü (2) le taught in: Germa	ın and/or English						
	Metho	d of ass	essment	If ann of one date). Langu	ounced by the lect e candidate each (a		of the course, the written or an oral examination in		replaced by an oral examination s (approx. 15 minutes per candi-			
10-AI=AM-	Advan	ced Mac	hine Lear	ning 1								
L1-242-m01	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	! S			+ Ü (2) le taught in: Germa	ın and/or English						
	Method of assessment											

10-AI=AM-	Advanced Ma	chine Lear	ning 2								
L2-242-m01	ECTS 5	Duration	1 1 5	emester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (2) + Ü (Module ta		nn and/or English						
	Method of as	sessment	If announ of one cardate). Language	Language of assessment: German and/or English Creditable for bonus							
10-AI=NLP1-242-	Natural Lang	uage Proce	ssing 1								
mo1	ECTS 5	Duration	1 1 5	emester	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								
10-AI=NLP2-242-	Natural Lang	uage Proce	ssing 2				,				
mo1	ECTS 5	Duration	1 1 5	emester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (2) + Ü (Module ta		ın and/or English						
	Method of as	sessment	If announ of one cardate). Language	ced by the lecting and idate each (a		of the course, the written r an oral examination in g		replaced by an oral examination (approx. 15 minutes per candi-			
10-AI=TAI1-242-	Theory of Art	ificial Intel	ligence 1								
mo1	ECTS 5	Duration	1 1 5	emester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (2) + Ü (Module ta		nn 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								

10-Al=TAl2-242-	Theory	Theory of Artificial Intelligence 2											
mo1	ECTS	5	Duration	1 semester	Method of grading numerical grad	le Modul level	graduate						
	Courses	5		V (2) + Ü (2) Module taught in: Geri	man and/or English	,							
	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 candi- date). canguage of assessment: German and/or English Creditable for bonus									
10-AI=CV1-242-	Comput	ter Visio	n 1										
mo1	ECTS	5	Duration		Method of grading numerical grad	le Modul level	graduate						
	Courses	5		V (2) + Ü (2) Module taught in: Eng	V (2) + Ü (2) Module taught in: English								
	Method	l of asse		Nritten 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: English Creditable for bonus									
10-AI=CV2-242-	Comput	ter Visio	n 2										
mo1	ECTS	5	Duration		Method of grading numerical grad	le Modul level	graduate						
	Courses			$V(2) + \ddot{U}(2)$ Module taught in: English									
	Method of assessment				e replaced by an oral examination es (approx. 15 minutes per candi-								
10-l=MLN1-232-	Machin	e Learn	ing for Ne	tworks 1									
mo1	ECTS	5	Duration	1 semester	Method of grading numerical grad	le Modul level	graduate						
	Courses	5		V (2) + Ü (2) Module taught in: Eng	lish								
			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									
	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									

10-l=MLN2-232-	Machine Learning for Networks 2												
mo1	ECTS 5	Duratio	n 1	semester	Method of grading numerical gr	rade	Modul level	graduate					
	Courses		V (2) + Ü Module	j (2) taught in: English									
	Method of as	sessment	If annou of one candate). Language	anguage of assessment: English reditable for bonus									
	Additional In	formation	Focuses	ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,IT,SE,KI,HCI,IN									
10-l=IP-222-m01	Image Proces	ssing and C	omputat	ional Photograph	у								
	ECTS 5	Duratio	n 1	semester	Method of grading numerical gr	rade	Modul level	graduate					
	Courses		V (2) + Ü Module	j (2) taught in: English									
			If annou of one condate). Languag Creditab	Language of assessment: English Creditable for bonus									
10-I=RLCD-	Reinforcement Learning and Computational Decision Making												
M-232-m01	ECTS 5	Duratio		semester	Method of grading numerical gr	rade	Modul level	graduate					
	Courses			taught in: Germai									
	Method of as	sessment	If annou of one candate). Language	inced by the lectu andidate each (ap	rox. 60 to 120 minutes) rer at the beginning of the course, oprox. 20 minutes) or an oral exan German and/or English								
10-l=M-	Multilingual	NLP											
NLP-232-m01	ECTS 5	Duration		semester	Method of grading numerical gr	rade	Modul level	graduate					
	Courses		V (2) + Ü Module	J (2) taught in: Germaı	n and/or English								
	Method of as	ssessment	If annou of one candate). Language	en examination (approx. 60 to 120 minutes) nounced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examinati ne candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per can necessary									

10-AI=A-	Selecte	Selected Topics in AI Methods 1												
KAIM1-242-m01	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									
				b) pro c) ora d) ora Lango	pject: report (approx. Il examination of one al examination in gro	e candidate each (ap	entation (30 to 45 minute prox. 20 minutes) or dates (approx. 15 minutes	•	ussion on the topic or					
10-AI=A-	Selecte	d Topi	cs in Al Me	ethods	2			•						
KAIM2-242-m01	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			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). Language of assessment: German and/or English Creditable for bonus										
General KI Applica	tions (mi	in. 10 to	max. 20	ECTS o	redits)									
10-l=3D-232-m01	3D Poir	nt Clou	d Processi	ng										
	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: German and/or English creditable for bonus										
	Additio	Additional Information			ses available for stud	dents of the Master's	programme Informatik (C	Computer Science, 12	o ECTS credits): KI,LR,HCI,GE					

10-LURI=PHO-	Photo	gramme	tric Mach	ine Vis	ion							
TO-232-m01	ECTS	5	Duratio	1	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	sessment	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-LU- RI=AMS-232-m01	Auton	omous l	Mobile Sy:	stems								
	ECTS	10	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Cours	es		\ \ \/	/ (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 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							
	Additi	ional Info	ormation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT, KI, ES, LR, GE								
10-LU-	Robot	tics 1										
RI=RO1-232-mo1	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	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								
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): KI, ES, LR, HCI, GE								

10-LU-	Robotio	 :S 2										
RI=RO2-232-mo1	ECTS	10	Duration	1	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	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				ses available for stu 5, LR, HCI, GE	dents of the Master's	programme Informatik	(Computer Science, 120	o ECTS credits):			
10-l=DB2-242-m01	Databa	ses 2						·				
	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							
	Method of assessment			If ann of on date) Langu	Written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per date). Language of assessment: German and/or English Creditable for bonus							
	Additio	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE,KI,HCI							
10-l=DRLOC-221-	Deep R	einforc	ement Lea	rning	for Optimal Contro	l						
mo1	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		` ′	/ (2) + Ü (2) Module taught in: English							
	Method of assessment			If ann of on date) Langu	written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral 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: English creditable for bonus							

10-I=IR-242-m01	Informa	ation Re	trieval									
	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses	S			$V(2) + \ddot{U}(2)$							
				Module taught in: German and/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 candidate). Language of assessment: German and/or English Creditable for bonus							
					ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): T, KI, HCI, GE							
10-AI=SAC-242-		are Co	nputing									
mo1	ECTS 5 Duratio				1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses			V (2) - Modu	+ Ü (2) le taught in: Germ	an 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 examinat of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candate). Language of assessment: German and/or English Creditable for bonus								
10-l=lCG-232-m01	Interact	tive Co	mputer Gr	aphics								
	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses	S		V (2) -	+ Ü (2)							
	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: German and/or English creditable for bonus								
	Additional Information				Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): HCI.							

07-MLBI-202-m01	Machin	e Learn	ing in Bio	inform	atics							
	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (2) - Modu	- Ü (2) le taught in: Englisl	h						
	Method				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 candi- late). canguage of assessment: English creditable for bonus							
	Particip cation	oants ar of place		10 pla	ces. Should the nu	mber of applications exceed the number of availab	ole places, places	s will be allocated by lot.				
10-AI=AKA- KI-242-m01	Selecte	ed Topic	s in Al Ap	plicati	on & Technologies							
	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (2) - Modu	- Ü (2) le taught in: Germa	n and/or English						
	Method of assessment			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). Language of assessment: German and/or English Creditable for bonus								
10-I=MIR-232-m01		Music Information Retrieval										
	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	graduate				
	Course			V (2) + Ü (2) Module taught in: German and/or English 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								
	Method	d of ass	essment									
10-I=RRS-232-m01	Remote	e Sensir	ıg				,					
	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (2) + Modu	+ Ü (2) le taught in: Germa	n 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								
				possible majors for MA 120 Computer Science: LR,IN								
Macter's with 1 major Art	r Artificial Intelligence (2024) IMII Wiirzburg • generated 19-Mär-2024 • exam. reg. data record 88 731 - - H 2024 page 12 / 18											

10-AI=SEM2-242-	Seminar Al	Applications	;	·							
mo1	ECTS 5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		S (2) Modu	G (2) Module taught in: German and/or English							
	Method of a	assessment	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 Application	n-oriented S	ubject	s (min. o to max. 10	o ECTS credits)						
04-GEO-	Information	sciences in	Remo	te Sensing							
OMA23-242-mo1	ECTS 5	Duratio	า	1 semester	Method of grading	numerical grade	Modul level				
	Courses			(1) + Ü (1) odule taught in: English							
	Method of a	assessment	b) pre c) ter 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, ble, decide to hold assessment in German) creditable for bonus							
o4-GEO-	Al approach	nes in Earth	Observ	ation			·				
OMA25-242-m01	ECTS 5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level				
	Courses Method of assessment			+ Ü (1) ıle taught in: Englis	sh						
				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 ble, decide to hold assessment in German) creditable for bonus							

12-M-EAI-242-m01	Enterprise Al											
·	ECTS 5 Duration		1	1 semester	Method of grading numerical grade	Modul level						
	Courses			V (2) + Ü (2)								
				Module taught in: English								
	Method	d of ass		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)								
				Language of assessment: English								
				Assessment offered: In the semester in which the course is offered creditable for bonus								
	Particip		nd allo-	Number of places: 35. Should the number of applications exceed the number of available places, places will be allocated as								
	cation of places			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	n Supp	ort Syster									
mo1	ECTS 5 Duratio		Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses			V (2) + Ü (2) Module taught in: English								
	Method of assessment			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 Duration			1 semester	Method of grading	numerical grade	Modul level							
	Course		·	V (2) + Ü (2) Module taught in: German and/or 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 candidate). Language of assessment: German and/or English Creditable for bonus										
	Method	d of ass	essment											
		oants ar of place		50 (lo	50 (lot)									
Computer Science ((min. o t	nin. o to max. 10 ECTS credits)												
10-l=ST-232-m01	Discret	e Event	Simulati	on										
	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course		ı.		V (2) + Ü (2)									
	Method	or 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): IT,KI,ES,GE,IN										
10-l=SSS-232-m01	Security of Software Systems													
	ECTS Course	5 S	Duration	1 semester Method of grading numerical grade Modul level graduate 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 candidate). 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): SE,KI,LR, HCI, ES, SEC,IN									

10-l=DDB-212-m01	Deduct	ive Data	bases				,				
	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses			V (2) -	+ Ü (2)	·	•	•			
	Method of assessment			written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). creditable for bonus Language of assessment: German and/or English							
	Additional Information			Focus	es available for stu	idents of the Master's programme Informatik (Com	puter Science, 120	o ECTS credits): AT,SE,IT,KI			
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) -	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 Language of assessment: German and/or English Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,SE,IT,KI							
10-l=SB-212-m01					- available for ste	dents of the master 3 programme informatik (com	puter science, 120	- Let's credits). At, 3L,11, Ki			
10 1–36 212 11101	Systems Benchmarking 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). creditable for bonus Language of assessment: German and/or English							
	Additio	nal Info			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	Advanced Programming												
	ECTS	5	Duration	ı	1 semester	Method of grading numerical grade	Modul le	evel	graduate				
	Course	es		V (2) ·	/ (2) + Ü (2)								
	Metho	d of ass	essment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per 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-mo1		Selected Topics in Computer Science											
	ECTS	5	Duratio	1	1 semester	Method of grading numerical grade	Modul le	evel	graduate				
	Course	es		V (2) ·	+ Ü/S (2)								
				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-		Principles of Interactive Systems											
mo1	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul le	evel	graduate				
	Course	es		V (2) + Ü (2) Module taught in: German and/or English									
	Metho	d of ass	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	nodal In	terfaces				'						
mo1	ECTS	5	Duratio	1	1 semester	Method of grading numerical grade	Modul le	evel	graduate				
	Courses			V (2) + Ü (2) Module taught in: German and/or English									
	Method of assessment			b) pre c) ora Langu	esentation of proje I examination of o	(approx. 90 minutes) or ect results (approx. 30 minutes) or one candidate each (approx. 30 minutes) nt: German and/or English							

10-HCl-3DUl-212-	3D Usei	3D User Interfaces											
mo1	ECTS 5 Duration			n .	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	5		V (2) + Ü (2) Module taught in: German and/or English									
	Method	l of asse	essment	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	ECTS c	redits)										
10-AI=MA-242-	Master's Thesis Artificial Intelligenz												
mo1	ECTS 25 Duratio		Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	5		no courses assigned									
	Method	l of asse	essment	Master-Thesis (50 to 100 pages) Language of assessment: German and/or English									
	Additio	nal Info	rmation	Time to complete: 6 months.									
10-AI=M-	Conclud	ding Col											
K-242-m01	ECTS 5 Duratio		1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate					
	Courses	5		K (o)									
	Method of assessment			final colloquium (approx. 60 minutes) Language of assessment: German and/or English									