



Annex SFB

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

Responsible: Institute of Computer Science Examination regulations version: 2010 Abbreviations used: Course types: $\mathbf{E} = \text{field trip}$, $\mathbf{K} = \text{colloquium}$, $\mathbf{O} = \text{conversatorium}$, $\mathbf{P} = \text{placement/lab course}$, $\mathbf{R} = \text{project}$, $\mathbf{S} = \text{seminar}$, $\mathbf{T} = \text{tutorial}$, $\mathbf{\ddot{U}} = \text{exercise}$, \mathbf{V} = lecture Term: **SS** = summer semester, **WS** = winter semester Methods of grading: NUM = numerical grade, B/NB = (not) successfully completed Regulations: (L)ASPO = general academic and examination regulations (for teaching-degree programmes), FSB = subject-specific provisions, SFB = list of modules Other: A =thesis, LV =course(s), PL =assessment(s), TN =participants, VL =prerequisite(s) Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not cre-Conventions for the modules in this SFB: ditable for bonus. Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the me-Information on 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 assessment procedures: 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:

ASP02009

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

14-Jul-2010 (2010-32)

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	Duratio		on	(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	ssessn	nent								
	Only after successful completion of			if applica	fapplicable						
	Other prerequisites			if applicable							
	Participants and allocati- on of places			if applicable							
	Additional information		if applicable								
	Referred to in LPO I			if applicable (examination regulations for teaching-degree programmes)							

Thesis (30 ECTS cro	edits)										
10-I=MA-102-m01	Master	r Thesis									
	ECTS	30	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	es	- Fa	no co	urses assigned						
	Method of assessment			assessed written thesis Language of assessment: German, English if agreed upon with the examiner							
Compulsory Course	es (15 EC	TS cred	its)								
10-I=SEM3-102-	Semina	ar									
m01	ECTS	5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Course	es		S (no	information on SWS	(weekly contact hou	ırs) and course language availa	ble)			
	Method of assessment			talk w Langu	talk with written elaboration, details to be specified by the lecturer at the beginning of the course Language of assessment: German, English if agreed upon with the examiner						
	Additic	onal Info	rmation	In sen	In seminars and lab courses, participants are not entitled to claim certain topics of seminars/lab courses.						
10-I=PRAK-102-	Practical Course										
m01	ECTS	10	Duratio	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Course	S		P (no	information on SWS	(weekly contact hou	rs) and course language availa	ble)			
	Method of assessment			written elaboration, details to be specified by the lecturer at the beginning of the course Language of assessment: German, English if agreed upon with the examiner							
	Additic	onal Info	rmation	In sen	In seminars and lab courses, participants are not entitled to claim certain topics of seminars/lab courses.						
Compulsory Electiv	ves (75 E	CTS cree	dits)								
10-I-GT-102-m01	Algorit	hmic Gr	aph Theo	ry							
	ECTS	5	Duratio	<u>n</u>	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	s	-	V + Ü	(no information on S	SWS (weekly contact	hours) and course language av	ailable)			
	Metho	d of asse	essment	written examination (approx. 50 to 60 minutes); if announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups (one candidate each: 15 minutes, groups of 2: 20 minutes, groups of 3: 25 minutes) Language of assessment: German, English if agreed upon with the examiner							
	other p	orerequis	sites	Admis cours	ssion prerequisite to e).	assessment: exercis	ses (type and scope to be anno	unced by the le	cturer at the beginning of the		

10-I-DB-102-m01	Databases										
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V + Ü	+ Ü (no information on SWS (weekly contact hours) and course language available)							
	Method of a	issessment	writte	written examination (approx. 50 to 60 minutes)							
			if ann	It announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral							
			tes, g	es, groups of 3: 25 minutes)							
			Langu	Language of assessment: German, English if agreed upon with the examiner							
	other prerec	quisites	Admis cours	Admission prerequisite to assessment: exercises (type and scope to be announced by the lecturer at the beginning of the course).							
	Referred to	in LPO I	§ 49 (§ 69 (1) 1. b) Datenbanksy 1) 1. b) Datenbanksy	vsteme und Software vsteme und Software	technologie technologie					
10-I-WBS-102-m01	Knowledge-	based System	ems								
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V + Ü	(no information on S	SWS (weekly contact	hours) and course language av	ailable)				
	Method of a	issessment	writte	n examination (appr	ox. 50 to 60 minutes						
			if ann	if announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each: it minutes, groups of as a minutes of a cominute of							
			tes, g	roups of 3: 25 minut	es)	examination in groups (one car	iuluale each. 15	, minutes, groups of 2. 20 minu-			
			Langu	age of assessment:	German, English if a	greed upon with the examiner					
10-I-DM-102-m01	Data Mining	8									
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V + Ü	' + Ü (no information on SWS (weekly contact hours) and course language available)							
	Method of a	ssessment	writte	written examination (approx. 50 to 60 minutes); if announced by the lecturer by four weeks prior to the examination date, the							
			writte	written examination can be replaced by an oral examination of one candidate each or an oral examination in groups (one can-							
			Langu	Language of assessment: German, English if agreed upon with the examiner							
	other prerec	quisites	Admis	Admission prerequisite to assessment: exercises (type and scope to be announced by the lecturer at the beginning of the							
			cours	course).							
10-I-00P-102-m01	Object-orie	nted Progra	mming				,				
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V + Ü	(no information on S	SWS (weekly contact	hours) and course language av	ailable)				
	Method of a	issessment	writte	n examination (appr	ox. 50 to 60 minutes	;); if announced by the lecturer	by four weeks p	prior to the examination date, the			
			didate	e each: 15 minutes.	groups of 2: 20 minut	tes, groups of 3: 25 minutes)	each of all oral	t examination in groups (one can-			
			Langu	age of assessment:	German, English if a	greed upon with the examiner					
	other prerec	quisites	Admis cours	ssion prerequisite to e).	assessment: exercis	ses (type and scope to be anno	unced by the le	cturer at the beginning of the			

Master's with 1 major Computer Science (2010)	JMU Würzburg • generated 26-Aug-2024 • exam. reg. data record 88 079 - - H 2010	page 4 / 15

10-I-KT-102-m01	Theory of Com	plexity								
	ECTS 5	Duratior	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V + Ü	+ Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of ass	essment	writte writte didate Langu	written examination (approx. 50 to 60 minutes); if announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups (one candidate each: 15 minutes, groups of 2: 20 minutes, groups of 3: 25 minutes) Language of assessment: German, English if agreed upon with the examiner						
	other prerequi	sites	Admis cours	Admission prerequisite to assessment: exercises (type and scope to be announced by the lecturer at the beginning of the course).						
10-I-AR-102-m01	Automation an	nd Control	Techn	ology						
	ECTS 8	Duratior	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V + Ü	(no information on	SWS (weekly contact	hours) and course language av	ailable)			
	Method of ass	essment	writte writte 90 mi (appro Langu	<i>r</i> ritten examination (approx. 80 to 90 minutes). If announced by the lecturer by four weeks prior to the examination date, the <i>r</i> ritten examination can be replaced by an oral examination of one candidate each or an oral examination in groups. A 80 to o minute written examination is equivalent to a 20 minute (approx.) oral examination of one candidate each, a 30 minute approx.) oral examination in groups of 2 and a 40 minute (approx.) oral examination in groups of 3. anguage of assessment: German, English if agreed upon with the examiner						
	other prerequi	sites	Admis cours	ssion prerequisite t e).	o assessment: exerci	ses (type and scope to be anno	unced by the le	cturer at the beginning of the		
10-I-BS-102-m01	Operating Sys	tems								
	ECTS 5	Duratior	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V + Ü	(no information on	SWS (weekly contact	hours) and course language av	ailable)			
	Method of ass	essment	writte writte didate Langu	written examination (approx. 50 to 60 minutes); if announced by the lecturer by four weeks prior to the examination date, th written examination can be replaced by an oral examination of one candidate each or an oral examination in groups (one can didate each: 15 minutes, groups of 2: 20 minutes, groups of 3: 25 minutes) Language of assessment: German, English if agreed upon with the examiner						
	other prerequi	sites	Admis cours	Admission prerequisite to assessment: exercises (type and scope to be announced by the lecturer at the beginning of the course).						
	Referred to in I	LPO I	§69 (1) 1. c) Informatik T	echnische Informatik					
10-I-RAK-102-m01	Computer Arch	nitecture			-					
	ECTS 5	Duratior	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V + Ü	(no information on	SWS (weekly contact	hours) and course language av	ailable)			
	Method of ass	essment	writte writte didate Langu	written examination (approx. 50 to 60 minutes); if announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups (one candidate each: 15 minutes, groups of 2: 20 minutes, groups of 3: 25 minutes) Language of assessment: German, English if agreed upon with the examiner						
	other prerequi	sites	Admis cours	ssion prerequisite t e).	o assessment: exerci	ses (type and scope to be anno	unced by the le	cturer at the beginning of the		
	Referred to in I	LPO I	§69 (1) 1. c) Informatik T	echnische Informatik					

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10-I-RK-102-m01	Compute	er Netv	vorks and	Comm	unication System	S							
	ECTS	8	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		-3	V + Ü	+ Ü (no information on SWS (weekly contact hours) and course language available)								
	Method	of asse	essment	writte writte 90 mi (appro Langu	Itten examination (approx. 80 to 90 minutes). If announced by the lecturer by four weeks prior to the examination date, the itten examination can be replaced by an oral examination of one candidate each or an oral examination in groups. A 80 to minute written examination is equivalent to a 20 minute (approx.) oral examination of one candidate each, a 30 minute pprox.) oral examination in groups of 2 and a 40 minute (approx.) oral examination in groups of 3. nguage of assessment: German, English if agreed upon with the examiner								
	other pro	erequis	sites	Admis cours	dmission prerequisite to assessment: exercises (type and scope to be announced by the lecturer at the beginning of th ourse).								
07-Bl-102-m01	Bioinfor	matics											
	ECTS	5	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses				(no information on	SWS (weekly contact	hours) and course language av	ailable)					
	Method	of asse	essment	writte writte didate Langu	ritten examination (approx. 50 to 60 minutes); if announced by the lecturer by four weeks prior to the examination date, the ritten examination can be replaced by an oral examination of one candidate each or an oral examination in groups (one can- idate each: 15 minutes, groups of 2: 20 minutes, groups of 3: 25 minutes) anguage of assessment: German, English if agreed upon with the examiner								
	other prerequisites			Admis cours	ssion prerequisite t e).	to assessment: exercis	ses (type and scope to be anno	unced by the le	cturer at the beginning of the				
10-I=DK-102-m01	Data Co	mpress	sion										
	ECTS	8	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			V + Ü	(no information on	SWS (weekly contact	hours) and course language av	ailable)					
	Method	of asse	essment	writte writte 90 mi (appro Langu	n examination (ap n examination can nute written exami ox.) oral examinati age of assessmen	prox. 80 to 90 minutes be replaced by an ora nation is equivalent to on in groups of 2 and a t: German, English if a	b). If announced by the lecturer l examination of one candidate o a 20 minute (approx.) oral exa a 40 minute (approx.) oral exan greed upon with the examiner	by four weeks p e each or an ora amination of on nination in grou	prior to the examination date, the l examination in groups. A 80 to e candidate each, a 30 minute ps of 3.				
	other pr	erequis	sites	Where	e applicable, prere	quisites as specified b	y the lecturer at the beginning	of the course (e	.g. completion of exercises).				
10-I=PVS-102-m01	Program	nming o	of Distrib	uted Sy	/stems								
	ECTS	8	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			V + Ü	(no information on	SWS (weekly contact	hours) and course language av	ailable)					
	Method of assessment			written examination (approx. 80 to 90 minutes). If announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups. A 80 to 90 minute written examination is equivalent to a 20 minute (approx.) oral examination of one candidate each, a 30 minute (approx.) oral examination in groups of 2 and a 40 minute (approx.) oral examination in groups of 3. Language of assessment: German, English if agreed upon with the examiner									

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10-l=lR-102-m01	Inform	ation Re	etrieval						-		
	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	es		V + Ü	/ + Ü (no information on SWS (weekly contact hours) and course language available)						
	Metho	d of asse	essment	writte	vritten examination (approx. 50 to 60 minutes); if announced by the lecturer by four weeks prior to the examination date, the						
				writte	written examination can be replaced by an oral examination of one candidate each or an oral examination in groups (one can-						
				didate	alaate each: 15 minutes, groups of 2: 20 minutes, groups of 3: 25 minutes)						
		<u> </u>	•.	Langu	Where applicable prerequisites as specified by the lecturer at the beginning of the source (a g completion of everyices)						
	other p	orerequis	sites	where	e applicable, prereq	uisites as specified b	by the lecturer at the beginning	of the course (e	. g. completion of exercises).		
10-I=SIM-102-m01	Natura	il Langua	age Proce	ssing	and Text Mining			1			
	ECTS	ECTS 5 Duration			1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	es		V + Ü	(no information on	SWS (weekly contact	hours) and course language av	ailable)			
	Metho	d of asse	essment	writte	n examination (app	rox. 50 to 60 minutes	;); if announced by the lecturer	by four weeks p	rior to the examination date, the		
				writte	n examination can l	be replaced by an ora	ll examination of one candidate	e each or an oral	examination in groups (one can-		
				langi	indate each: 15 minutes, groups of 2: 20 minutes, groups of 3: 25 minutes)						
	other r	rerequie	sites	Where	annlicable prereg	uisites as specified b	w the lecturer at the beginning	of the course (e	g completion of exercises)		
10-I-PP-102-m01	Advanced Space Project										
10-1-1 102-1101	ECTS Q Duratio				1 comostor	Mothod of grading	numerical grade	Modulloval	graduato		
	Course	0	Duration	I IV.Ü	(no information on	SWC (weakly contact			graduate		
	Course			V + U •	(no information on		nours) and course language av		· · · · · · · · · · · · · · · · · · ·		
	Metho	d of asse	essment	written examination (approx. 80 to 90 minutes). If announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups. A 80 to							
				oo mi	90 minute written examination is equivalent to a 20 minute (approx.) oral examination of one candidate each, a 30 minute (approx.) oral examination in groups of 2 and a 40 minute (approx.) oral examination in groups of 3.						
				(appr							
				Langu	lage of assessment	: German, English if a	greed upon with the examiner	-			
	other p	orerequis	sites	Where	e applicable, prereq	uisites as specified b	by the lecturer at the beginning	of the course (e	. g. completion of exercises).		
10-l=ES-102-m01	Embed	lded Sys	tems								
	ECTS	8	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	es		V + Ü	(no information on	SWS (weekly contact	hours) and course language av	ailable)	·		
	Metho	d of asse	essment	writte	n examination (app	rox. 80 to 90 minutes	5). If announced by the lecturer	by four weeks p	prior to the examination date, the		
				writte	n examination can l	be replaced by an ora	l examination of one candidate	e each or an oral	examination in groups. A 80 to		
				90 mi	nute written examir	nation is equivalent to	o a 20 minute (approx.) oral exa	amination of one	e candidate each, a 30 minute		
				(appr	ox.) oral examinatio	on in groups of 2 and a	a 40 minute (approx.) oral exan	nination in grou	ps of 3.		
				Langu	lage of assessment	: German, English if a	greed upon with the examiner	<u></u>			
	other p	prerequis	sites	Where	e applicable, prereq	juisites as specified b	by the lecturer at the beginning	of the course (e	.g. completion of exercises).		

10-I=KI-102-m01	Artificia	al Intelli	gence									
	ECTS	8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	s		V + Ü	+ Ü (no information on SWS (weekly contact hours) and course language available)							
	Method	d of asse	essment	writte	ritten examination (approx. 80 to 90 minutes); if announced by the lecturer by four weeks prior to the examination date, the							
				writte	n examination can	be replaced by an ora	l examination of one candidate	e each or an ora	l examination in groups (one can-			
				didate Langu	e each: 15 minutes, lage of assessment	groups of 2: 20 minu : German, English if a	tes, groups of 3: 25 minutes) greed upon with the examiner					
	other p	rerequis	sites	Where	ere applicable, prerequisites as specified by the lecturer at the beginning of the course (e.g. completion of exercises).							
10-l=EL-102-m01	E-Learn	ning										
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	s		V + Ü	(no information on	SWS (weekly contact	hours) and course language av	ailable)				
	Method	d of asse	essment	writte	n examination (app	orox. 50 to 60 minutes); if announced by the lecturer	by four weeks p	prior to the examination date, the			
				writte	n examination can	be replaced by an ora	l examination of one candidate	e each or an ora	l examination in groups (one can-			
				didate	e each: 15 minutes,	groups of 2: 20 minu Cormon English if a	tes, groups of 3: 25 minutes)					
	othorn	roroquia	itos	Whor	age of assessment	uisitos as sposifiod b	w the lecturer at the beginning	of the course (e	a completion of exercises)			
10 I-MI 102 mo1	Modica	Inform		where	e applicable, pieleo		y the lecturer at the beginning		e. g. completion of exercises).			
10-1-101-102-1101	FCTS		Duration		1 comoctor	Mothod of grading	numerical grade	Modulloval	graduato			
	ECT3	5	Duration	ı İv.ü	(no information on	SWS (weakly cantact			glauuale			
	Course	5		V + U	(no information on	SWS (Weekly contact	nours) and course language av					
	Method	a or asse	essment	writte	n examination (app n examination can	hox. 50 to 60 minutes	; if announced by the lecturer	by four weeks p	l examination in groups (one can-			
				didate	e each: 15 minutes,	groups of 2: 20 minu	tes, groups of 3: 25 minutes)					
				Langu	lage of assessment	: German, English if a	greed upon with the examiner					
	other p	rerequis	sites	Where	e applicable, prereq	juisites as specified b	y the lecturer at the beginning	of the course (e	e.g. completion of exercises).			
10-l=RO-102-m01	Roboti	cs										
	ECTS	8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V + Ü	(no information on	SWS (weekly contact	hours) and course language av	vailable)				
	Method	d of asse	essment	writte	n examination (app	orox. 80 to 90 minutes	 If announced by the lecturer 	by four weeks p	prior to the examination date, the			
				writte	n examination can	be replaced by an ora	l examination of one candidate	e each or an ora	l examination in groups. A 80 to			
				90 mi	oo minute written examination is equivalent to a 20 minute (approx.) oral examination of one candidate each, a 30 minute (approx.) oral examination in groups of 3. (approx.) oral examination in groups of 2 and a 40 minute (approx.) oral examination in groups of 3.							
				Langu								
	other p	rerequis	sites	Where	e applicable, prereq	juisites as specified b	y the lecturer at the beginning	of the course (e	e. g. completion of exercises).			

10-l=SSD-102-m01	no1 Spacecraft Systems Design											
	ECTS	8	Duration	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses V + Ü (no information on SWS (weekly contact hours) and course language available)											
	Metho	d of ass	essment	writte writte 90 mi (appro Langu	vritten examination (approx. 80 to 90 minutes). If announced by the lecturer by four weeks prior to the examination date, the vritten examination can be replaced by an oral examination of one candidate each or an oral examination in groups. A 80 to oo minute written examination is equivalent to a 20 minute (approx.) oral examination of one candidate each, a 30 minute approx.) oral examination in groups of 2 and a 40 minute (approx.) oral examination in groups of 3. .anguage of assessment: German, English if agreed upon with the examiner							
	other	orerequi	sites	Where	Nhere applicable, prerequisites as specified by the lecturer at the beginning of the course (e.g. completion of exercises).							
10-I=AA-102-m01	Advan	ced Auto	omation									
	ECTS	8	Duration	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	es		V + Ü	(no information on S	SWS (weekly contact hours) and course lang	uage available)					
	Metho	d of ass	essment	writte writte 90 mi (appro Langu	tten examination (approx. 80 to 90 minutes). If announced by the lecturer by four weeks prior to the examination date, the tten examination can be replaced by an oral examination of one candidate each or an oral examination in groups. A 80 to minute written examination is equivalent to a 20 minute (approx.) oral examination of one candidate each, a 30 minute oprox.) oral examination in groups of 2 and a 40 minute (approx.) oral examination in groups of 3. Inguage of assessment: German, English if agreed upon with the examiner							
	other	prerequi	sites	Where	e applicable, prereq	uisites as specified by the lecturer at the beg	ginning of the course (e	e.g. completion of exercises).				
10-I=R02-102-m01	Robot	ics II: Ne	tworked l	Robots								
	ECTS	8	Duration	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	es		V + Ü	(no information on S	SWS (weekly contact hours) and course lang	uage available)					
	Metho	d of ass	essment	writte writte 90 mi (appro Langu	itten examination (approx. 80 to 90 minutes). If announced by the lecturer by four weeks prior to the examination date, the itten examination can be replaced by an oral examination of one candidate each or an oral examination in groups. A 80 to minute written examination is equivalent to a 20 minute (approx.) oral examination of one candidate each, a 30 minute pprox.) oral examination in groups of 2 and a 40 minute (approx.) oral examination in groups of 3.							
	other	orerequi	sites	Where	e applicable, prereq	uisites as specified by the lecturer at the beg	ginning of the course (e	e.g. completion of exercises).				
10-I=DDB-102-m01	Deduc	tive Data	abases									
	ECTS	8	Duratio	1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	es		V + Ü	no information on S	SWS (weekly contact hours) and course lang	uage available)					
	Metho	d of ass	essment	writte writte 90 mi (appro Langu Where	written examination (approx. 80 to 90 minutes). If announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups. A 80 to 90 minute written examination is equivalent to a 20 minute (approx.) oral examination of one candidate each, a 30 minute (approx.) oral examination in groups of 2 and a 40 minute (approx.) oral examination in groups of 3. Language of assessment: German, English if agreed upon with the examiner							

10-I=DB2-102-m01	Databa	atabases II										
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V + Ü	(no information on	SWS (weekly contact	hours) and course language av	ailable)				
	Method	d of asse	essment	writte	itten examination (approx. 50 to 60 minutes); if announced by the lecturer by four weeks prior to the examination date, the							
				writte	n examination can l	be replaced by an ora	l examination of one candidate	e each or an ora	l examination in groups (one can-			
				didat	e each: 15 minutes,	groups of 2: 20 minut	tes, groups of 3: 25 minutes)					
		<u> </u>	<u>.</u>	Langu	age of assessment	: German, English if a	greed upon with the examiner	<u> </u>				
	other p	rerequis	sites	Where	inere applicable, prerequisites as specified by the lecturer at the beginning of the course (e. g. completion of exercises).							
10-l=LVS-102-m01	Analyti	ical Perf	ormance	Evalua	tion of Distributed	Systems		1				
	ECTS	8	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V + Ü	(no information on	SWS (weekly contact	hours) and course language av	ailable)				
	Method	d of asse	essment	writte	n examination (app	rox. 80 to 90 minutes). If announced by the lecturer	by four weeks p	prior to the examination date, the			
				writte	n examination can	be replaced by an ora	l examination of one candidate	e each or an ora	l examination in groups. A 80 to			
		90 minute written examination is equivalent to a 20 minute (approx.) oral examination of one candidate each, a 30										
				Langu	age of assessment	: German. English if a	greed upon with the examiner		ps of 3.			
	other p	rereaui	sites	Where	applicable, prereq	uisites as specified b	v the lecturer at the beginning	of the course (e	e. g. completion of exercises).			
10-l=ST-102-m01	Simula	tion Tec	hniques	for Per	formance Evaluatio	<u> </u>	,					
	ECTS	8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V + Ü	(no information on	SWS (weekly contact	hours) and course language av	ailable)	10			
	Method	d of asse	essment	writte	n examination (app	rox. 80 to 90 minutes). If announced by the lecturer	by four weeks r	prior to the examination date, the			
				writte	n examination can	be replaced by an ora	l examination of one candidate	e éach or an ora	l examination in groups. A 80 to			
				90 mi	nute written examir	nation is equivalent to	a 20 minute (approx.) oral exa	amination of on	e candidate each, a 30 minute			
				(appr	ox.) oral examinatio	n in groups of 2 and a	a 40 minute (approx.) oral exan	nination in grou	ips of 3.			
		· · · · ·		Langu	age of assessment	: German, English if a	greed upon with the examiner	- f the second of (
	other p	rerequis	sites	wnere	e applicable, prereq	uisites as specified b	y the lecturer at the beginning	of the course (e	e. g. completion of exercises).			
10-I=AFS-102-m01	Automa	ata inec	bry and Fo	ormal L	anguages			1	· · · ·			
	ECTS	8	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V + U	(no information on	SWS (weekly contact	hours) and course language av	ailable)				
	Method	d of asse	essment	writte	n examination (app	rox. 80 to 90 minutes). If announced by the lecturer	by four weeks p	prior to the examination date, the			
				writte	n examination can l	be replaced by an ora	l examination of one candidate	e each or an ora	l examination in groups. A 80 to			
				(approx) oral examination is groups of 2 and a 40 minute (approx.) oral examination of one candidate each, a								
				Language of assessment: German. English if agreed upon with the examiner								
	other p	rerequis	sites	Where	applicable, prereq	uisites as specified b	v the lecturer at the beginning	of the course (e	e.g. completion of exercises).			

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10-l=BL-102-m01	Computability Theory and Mathematical Logic											
	ECTS	8	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	95		V + Ü	(no information on	SWS (weekly contact	hours) and course language a	available)				
	Metho	d of ass	essment	writte	written examination (approx. 80 to 90 minutes). If announced by the lecturer by four weeks prior to the examination date, the							
				writte	vritten examination can be replaced by an oral examination of one candidate each or an oral examination in groups. A 80 to							
				90 mi (annro) minute written examination is equivalent to a 20 minute (approx.) oral examination of one candidate each, a 30 minute							
				Langu	Language of assessment: German, English if agreed upon with the examiner							
	other p	rerequi	sites	Where	applicable, prerec	uisites as specified b	y the lecturer at the beginnin	g of the course (e	.g. completion of exercises).			
10-I=KT2-102-m01	Advand	ced Topi	ics in Corr	putati	onal Complexity		·					
	ECTS	8	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	:5		V + Ü	(no information on	SWS (weekly contact	hours) and course language a	available)				
	Metho	d of ass	essment	writte	n examination (app	rox. 80 to 90 minutes	5). If announced by the lecture	er by four weeks p	prior to the examination date, the			
				writte	n examination can	be replaced by an ora	l examination of one candida	te each or an ora	l examination in groups. A 80 to			
				(appr	ox.) oral examinatio	on in groups of 2 and a	a 20 minute (approx.) oral ex	amination in grou	ps of 3.			
				Langu	age of assessment	: German, English if a	greed upon with the examine	r	F J.			
	other prerequisites Where applicable, prerequisites as specified by the lecturer at the beginning of the course (e.g. completion of							e.g. completion of exercises).				
10-I=KD-102-m01	Crypto	Cryptography and Data Security										
	ECTS 5 Duration 1 semester Method of grading numerical grade Modul level graduate											
	Course	s		V + Ü	(no information on	SWS (weekly contact	hours) and course language a	available)				
	Metho	d of ass	essment	ient written examination (approx. 50 to 60 minutes); if announced by the lecturer by four weeks prior to the examination								
				writte	written examination can be replaced by an oral examination of one candidate each or an oral examination in groups (one didate each or an oral examination in groups (one							
				Langu	age of assessment	: German. English if a	greed upon with the examine	r				
	other p	reregui	sites	Where	applicable, prerec	uisites as specified b	by the lecturer at the beginnin	g of the course (e	. g. completion of exercises).			
10-l=AG-102-m01	Compu	itationa	l Geometr	y y			,	<u> </u>	<u> </u>			
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	!S		V + Ü (no information on SWS (weekly contact hours) and course language available)								
	Metho	d of ass	essment	writte	n examination (app	rox. 50 to 60 minutes	; if announced by the lecture	er by four weeks p	prior to the examination date, the			
				writte	n examination can	be replaced by an ora	l examination of one candida	te each or an ora	l examination in groups (one can-			
				didate	e each: 15 minutes,	groups of 2: 20 minu • German English if a	tes, groups of 3: 25 minutes) greed upon with the examine	r				
	other r	orereaui	sites	Where	applicable, prerec	uisites as specified b	by the lecturer at the beginnin	g of the course (e	, g. completion of exercises).			

10-I=APA-102-m01	Approximation Algorithms											
	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5	J	V + Ü	(no information on	SWS (weekly contact	hours) and course lang	uage available)				
	Method	ofasse	essment	writte	n examination (app	orox. 50 to 60 minutes); if announced by the	lecturer by four weeks p	prior to the examination date, the			
				writte	n examination can	be replaced by an ora	l examination of one ca	andidate each or an oral	examination in groups (one can-			
				didat Langu	date each: 15 minutes, groups of 2: 20 minutes, groups of 3: 25 minutes) anguage of assessment: German, English if agreed upon with the examiner							
	other p	rerequis	ites	Wher	Where applicable, prerequisites as specified by the lecturer at the beginning of the course (e.g. completion of exercises).							
10-l=VG-102-m01	Visualiz	ation o	f Graphs			· ·	·		· ·			
	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5		V + Ü	(no information on	SWS (weekly contact	hours) and course lang	uage available)				
	Method	of asse	essment	writte	n examination (app	rox. 50 to 60 minutes); if announced by the	lecturer by four weeks p	rior to the examination date, the			
				written examination can be replaced by an oral examination of one candidate each or an oral examination in groups (one can-								
				didat	idate each: 15 minutes, groups of 2: 20 minutes, groups of 3: 25 minutes)							
	othorn	oroquia	itoc	Where applicable, prorequicities as specified by the lecturer at the beginning of the source (e.g. completion of everyices)								
		erequis		bio Inf			y the lecturer at the be	ginning of the course (e	. g. completion of exercises).			
10-I=A- GIS-102-m01	Algorithms for Geographic Information Systems								l sur du sta			
013 102 1101	ECIS	5	Duration	n Iv ö	1 semester	Method of grading	numerical grade		graduate			
	Courses	5		V + U	(no information on	SWS (weekly contact	nours) and course lang	uage available)				
	Method	ofasse	essment	writte	n examination (app	prox. 50 to 60 minutes); if announced by the	lecturer by four weeks p	prior to the examination date, the			
				didat	tidate each: 15 minutes, groups of 2: 20 minutes, groups of 3: 25 minutes)							
				Langu	lage of assessment	: German, English if a	greed upon with the ex	aminer				
	other p	rerequis	ites	Where	e applicable, prerec	uisites as specified b	y the lecturer at the be	ginning of the course (e	.g. completion of exercises).			
10-I=CB-102-m01	Compiler Construction											
	ECTS	8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5		V + Ü	(no information on	SWS (weekly contact	hours) and course lang	uage available)				
	Method	ofasse	essment	writte	n examination (app	rox. 80 to 90 minutes). If announced by the	lecturer by four weeks p	prior to the examination date, the			
				writte	n examination can	be replaced by an ora	l examination of one ca	andidate each or an oral	examination in groups. A 80 to			
					90 minute written examination is equivalent to a 20 minute (approx.) oral examination of one candidate each, a 30 minute							
				Liappr	(approx.) oral examination in groups of 2 and a 40 minute (approx.) oral examination in groups of 3.							
				lang	lage of assessment	: German, English if a	reed upon with the ex	aminer				

10-I=PA-102-m01	Program Design and Analysis									
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		V + Ü	no information or	SWS (weekly contac	t hours) and course language	available)			
	Method of as	ssessment	writte writte didat Langu	written examination (approx. 50 to 60 minutes); if announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups (one candidate each: 15 minutes, groups of 2: 20 minutes, groups of 3: 25 minutes) Language of assessment: German. English if agreed upon with the examiner						
	other prereq	uisites	Wher	Where applicable, prerequisites as specified by the lecturer at the beginning of the course (e.g. completion of exercises).						
10-I=RAM-102-m01	Computer Ar	ithmetic			· · ·	-				
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		V + Ü	no information or	n SWS (weekly contac	t hours) and course language	available)			
	Method of as	ssessment	writte writte didat Langu	written examination (approx. 50 to 60 minutes); if announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups (one candidate each: 15 minutes, groups of 2: 20 minutes, groups of 3: 25 minutes) Language of assessment: German, English if agreed upon with the examiner						
	other prereq	uisites	Where applicable, prerequisites as specified by the lecturer at the beginning of the course (e.g. completion of exercises).							
10-I=A-	Selected Top	oics in Algo	rithms	and Theory						
KAT-102-m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		V + Ü (no information on SWS (weekly contact hours) and course language available)							
	Method of as	ssessment	writte writte didat Langu	written examination (approx. 50 to 60 minutes); if announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups (one candidate each: 15 minutes, groups of 2: 20 minutes, groups of 3: 25 minutes) Language of assessment: German, English if agreed upon with the examiner						
	other prereq	uisites	Wher	Where applicable, prerequisites as specified by the lecturer at the beginning of the course (e.g. completion of exercises).						
10-I=AK-	Selected Top	oics in Soft	ware Ei	vare Engineering						
SE-102-m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		V + Ü	V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of as	uisites	writte writte didat Langu Wher	written examination (approx. 50 to 60 minutes); if announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups (one candidate each: 15 minutes, groups of 2: 20 minutes, groups of 3: 25 minutes) Language of assessment: German, English if agreed upon with the examiner						

10-I=AKIT-102-m01	Selected Topics in Internet Technologies										
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses V + Ü (no information on SWS (weekly contact hours) and course language available)										
	Metho	d of asse	essment	written examination (approx. 50 to 60 minutes); if announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups (one candidate each: 15 minutes, groups of 2: 20 minutes, groups of 3: 25 minutes) Language of assessment: German. English if agreed upon with the examiner							
	other p	orerequis	ites	Wher	Where applicable, prerequisites as specified by the lecturer at the beginning of the course (e.g. completion of exercises).						
10-I=A-	Select	ed Topic	s in Intel	ligent	Systems						
KIS-102-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	es		V + Ü	no information or	n SWS (weekly contact	hours) and course language av	ailable)	<u>.</u>		
	Metho	d of asse	essment	written examination (approx. 50 to 60 minutes); if announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups (one candidate each: 15 minutes, groups of 2: 20 minutes, groups of 3: 25 minutes) Language of assessment: German, English if agreed upon with the examiner							
	other p	prerequis	sites	Where applicable, prerequisites as specified by the lecturer at the beginning of the course (e.g. completion of exercises).							
10-I=A-	Selected Topics in Embedded Systems										
KES-102-m01	ECTS 5 Duratio			n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			V + Ü (no information on SWS (weekly contact hours) and course language available)							
	Metho	d of asse	essment	written examination (approx. 50 to 60 minutes); if announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups (one can- didate each: 15 minutes, groups of 2: 20 minutes, groups of 3: 25 minutes) Language of assessment: German, English if agreed upon with the examiner							
	other p	orerequis	sites	Wher	Where applicable, prerequisites as specified by the lecturer at the beginning of the course (e.g. completion of exercises).						
10-I=AKL-	Select	ed Topic	s of Aero	space Engineering							
R-102-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			V + Ü (no information on SWS (weekly contact hours) and course language available)							
	Method of assessment			writte writte didate Langu Where	n examination (ap n examination car e each: 15 minutes lage of assessmer e applicable, prere	prox. 50 to 60 minute be replaced by an ora s, groups of 2: 20 minu it: German, English if a quisites as specified	s); if announced by the lecturer al examination of one candidate ites, groups of 3: 25 minutes) agreed upon with the examiner by the lecturer at the beginning	by four weeks p each or an ora of the course (e	rior to the examination date, the l examination in groups (one can-		

10-I=AKI-102-m01	Selecte	Selected Topics in Computer Science										
	ECTS 5 Duration 1 semester Method of grading numerical grade Modul level graduate Courses V + Ü (no information on SWS (weekly contact hours) and course language available) V + Ü V </td											
	Metho	d of asse	essment	written examination (approx. 50 to 60 minutes); if announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups (one candidate each: 15 minutes, groups of 2: 20 minutes, groups of 3: 25 minutes) Language of assessment: German, English if agreed upon with the examiner								
	other prerequisites Where applicable, prerequisites as specified by the lecturer at the beginning of the course (e. g. completion of exercise											