



Annex SFB

Studienfachbeschreibung (subject description, SFB) for the subject Computer Science as vertieft studiertes Fach (studied with a focus on the scientific discipline) with the degree "Erste Staatsprüfung für das Lehramt an Gymnasien"

Responsible: Institute of Computer Science

Examination regulations version: 2009

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

LASPO2009

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

27-Feb-2013 (2013-31)

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		Durat	ion	(in semesters)	Method of grading		Module level	
	Courses			To be spe	ecified in the form X	(y) with course type 2	X abbreviated as specified abo	ove and number of we	ekly contact hours y
	Method of a	ssessn	nent						
	Only after su completion of	iccessf of	ful	if applica	ıble				
	Other prerec	quisites	5	if applica	ıble				
	Participants on of places	and al	locati-	if applica	ble				
	Additional in	nforma	tion	if applica	ıble				
	Referred to i	n LPO I		if applica	ble (examination re	gulations for teachin	g-degree programmes)		

Scientific Disciplin	Scientific Discipline (92 ECTS credits)										
Compulsory Course	es (70 ECTS	credits)									
10-I-ADS-102-m01	Algorithm	and data stru	ictures	tures							
	ECTS 10	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 lang	uage available)					
	Method of	assessment	writte writte 90 mi (appr	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.							
	other prere	equisites	Admi cours	ssion prerequisite to e).	o assessment: exercises (type and scope to b	be announced by the le	cturer at the beginning of the				
	Referred to	o in LPO I	§ 49 (§ 69 ((1) 1. a) Informatik Th (1) 1. a) Informatik Th	heoretische Informatik, Algorithmen und Date heoretische Informatik, Algorithmen und Date	enstrukturen enstrukturen					
10-l-ST-102-m01	Software T	echnology									
	ECTS 10	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 lange	uage available)					
	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.								
	other prere	equisites	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 (1) 1. b) Datenbanksysteme und Softwaretechnologie § 69 (1) 1. b) Datenbanksysteme und Softwaretechnologie 								
10-I-DB-102-m01	Databases	;									
	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Courses		V + Ü	V + Ü (no information on SWS (weekly contact hours) and course language available)							
	Method of	assessment	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 minu- tes, groups of 3: 25 minutes) Language of assessment: German, English if agreed upon with the examiner								
	other prere	equisites	Admi cours	ssion prerequisite to e).	o assessment: exercises (type and scope to b	be announced by the le	cturer at the beginning of the				
	Referred to	o in LPO I	§ 49 (§ 69 ((1) 1. b) Datenbanks (1) 1. b) Datenbanks	ysteme und Softwaretechnologie ysteme und Softwaretechnologie						

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10-I-00P-GY-102-	Object-Oriente	d Progra	mming					
m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		V + Ü	(no information on)	SWS (weekly contact	nours) and course language av	ailable)	
	Method of asse	essment	writte writte didate Langu	n examination (app n examination can l e each: 15 minutes, lage of assessment:	rox. 50 to 60 minutes be replaced by an ora groups of 2: 20 minut : German, English if as	; if announced by the lecturer examination of one candidate es, groups of 3: 25 minutes) greed upon with the examiner	by four weeks p e each or an ora	prior to the examination date, the l examination in groups (one can-
	other prerequis	sites	Admi: cours	ssion prerequisite to e).	o assessment: exercis	es (type and scope to be anno	unced by the le	cturer at the beginning of the
	Referred to in L	PO I	§69 ((1) 1. b) Datenbanks	ysteme und Softwaret	echnologie		
10-I-PP-102-m01	Practical Cours	e in Prog	rammi	ng				
	ECTS 10	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses		P (no	information on SWS	6 (weekly contact hou	rs) and course language availa	ble)	
	Method of asse	essment	writte writte 90 mi (appr	n examination (app n examination can l nute written examir ox.) oral examinatio	rox. 80 to 90 minutes be replaced by an ora nation is equivalent to on in groups of 2 and a). If announced by the lecturer examination of one candidate a 20 minute (approx.) oral exa 40 minute (approx.) oral exan	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 prerequis	sites	Admi: cours	ssion prerequisite to e).	o assessment: exercis	es (type and scope to be anno	unced by the le	cturer at the beginning of the
	Additional Info	rmation	Addit	ional information or	n module duration: 1 t	o 2 semesters.		
	Referred to in L	PO I	§ 49 (§ 69 ((1) 1. c) Informatik Pi (1) 1. d) Informatik P	raktische Softwareent raktische Softwareent	wicklung wicklung		
10-I-SWP-102-m01	Practical cours	ourse in software						
	ECTS 10	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses		P (no	P (no information on SWS (weekly contact hours) and course language available)				
	Method of asse	essment	completion of project assignments, presentation					
	Referred to in L	PO I	§ 49 (§ 69 ((1) 1. c) Informatik Pı (1) 1. d) Informatik P	raktische Softwareent raktische Softwareent	wicklung wicklung		
10-I-TI-102-m01	Theoretical info	ormatics						
	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		V + Ü	(no information on	SWS (weekly contact	nours) and course language av	ailable)	
	Method 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 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.					
	other prerequis	sites	Admi: cours	ssion prerequisite to e).	o assessment: exercis	es (type and scope to be anno	unced by the le	cturer at the beginning of the
	Referred to in L	PO I	§ 49 (§ 69 (1) 1. a) Informatik Th 1) 1. a) Informatik Th	heoretische Informatil heoretische Informatil	k, Algorithmen und Datenstruk k, Algorithmen und Datenstruk	turen turen	
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10-I-TEl1-102-m01	Techn	ical Info	rmatics 1								
	ECTS	5	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	es		V + Ü	V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Metho	d of ass	essment	writte writte didate Langu	Iten examination (approx. 50 to 60 minutes); if announced by the lecturer by four weeks prior to the examination date, t tten examination can be replaced by an oral examination of one candidate each or an oral examination in groups (one c ate each: 15 minutes, groups of 2: 20 minutes, groups of 3: 25 minutes) Iguage of assessment: German, English if agreed upon with the examiner						
	other	orerequi	sites	TGL: १ begin	L: §69 Nr. 1 c). Admission prerequisite to assessment: exercises; type and scope to be announced by the lecturer a ginning of the course.						
	Referr	ed to in l	_PO I	§69 ((1) 1. c) Informatik T	Technische Informatik					
10-I-TEl2-102-m01	Techn	ical Info	rmatics 2								
	ECTS 5 Duratio			1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	es		V + Ü	Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment			writte writte didate Langu	written examination cap 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 prerequisites			TGL: §69 Nr. 1 c). 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			§69 (§ 69 (1) 1. c) Informatik Technische Informatik						
Compulsory Electiv	ves (22	ECTS cre	dits)								
10-I-RAL-102-m01	Digita	l compu	ter system	ıs							
	ECTS	10	Duratio	ı	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)			
	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.							
	other	orerequi	sites	Admis cours	ssion prerequisite t e).	to assessment: exerci	ses (type and scope to be anno	unced by the le	cturer at the beginning of the		
	Referr	ed to in l	PO I	§69 ((1) 1. c) Informatik T	Technische Informatik					

10-I-IÜ-102-m01	Inform	nation T	ransmissi	on						
	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Cours	ses		V + Ü	/ + Ü (no information on SWS (weekly contact hours) and course language available)					
	Meth	od of as:	sessment	writte writte 90 mi	n examination (app n examination can b inute written examin ox) oral examinatio	rox. 80 to 90 minutes). If announced by the lecture be replaced by an oral examination of one candidat nation is equivalent to a 20 minute (approx.) oral exa n in groups of 2 and a 40 minute (approx.) oral example	r by four weeks p e each or an ora amination of on mination in grou	prior to the examination date, the l examination in groups. A 80 to e candidate each, a 30 minute		
	other prerequisites			Admi: 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			§ 69 ((1) 1. c) Informatik Te	echnische Informatik				
10-I-LOG-102-m01	Logic	for info	rmatics							
	ECTS	6	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 a	vailable)			
	Method of assessment			writte writte didate	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)					
	other prerequisites			Admi: cours	Admission prerequisite to assessment: exercises (type and scope to be announced by the lecturer at the beginning of the course).					
10-I-HWP-102-m01	Pract	ical Cou	rse in Haro	lware	Nare					
	ECTS	10	Duratio	n	1 semester	Method of grading (not) successfully completed	Modul level	undergraduate		
	Cours	ses		P (no	P (no information on SWS (weekly contact hours) and course language available)					
	Meth	od of as	sessment	comp of the	completion of project assignments, presentation (type and expenditure of time to be specified by the lecturer at the begi of the course)					
10-I-GT-102-m01	Algor	ithmic G	iraph Theo	ory						
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Cours	ses		V + Ü	(no information on S	SWS (weekly contact hours) and course language a	vailable)			
	Method of assessment			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 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	prerequ	isites	Admis cours	ssion prerequisite to e).	assessment: exercises (type and scope to be anno	ounced by the le	cturer at the beginning of the		

10-I-WBS-102-m01	Knowledg	e-base	d System	S						
	ECTS 5	0	Duration		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 o	fasses	sment w	written examination (approx. 50 to 60 minutes)						
			if	if announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral						
			ex	xami	nation of one candi	date each or an oral e	examination in groups (one can	didate each: 15	minutes, groups of 2: 20 minu-	
			La	angu	age of assessment:	German. English if a	greed upon with the examiner			
10-I-DM-102-m01	Data Mini	ng			430 01 400000110114					
	ECTS 5		Duration		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 o	fasses	sment w	/rittei	n examination (app	rox. 50 to 60 minutes); if announced by the lecturer	by four weeks p	rior to the examination date, the	
				/ritte	n examination can b	be replaced by an ora	l examination of one candidate	each or an oral	examination in groups (one can-	
			d	Idate	e each: 15 minutes, ;	groups of 2: 20 minul German, English if a	tes, groups of 3: 25 minutes)			
	other prerequisites			difficulty of assessment. Contain, English in agreed upon with the examiner difficulty of assessment, every set of the announced by the lecturer at the beginning of the						
	other prerequisites			ourse	e).		to be and scope to be annot	unced by the tes	cturer at the beginning of the	
10-I-KT-102-m01	Theory of Complexity									
	ECTS 5 Duratio		Duration		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 o	Method of assessment			written examination (approx. 50 to 60 minutes); if announced by the lecturer by four weeks prior to the examination date, the					
			W	written examination can be replaced by an oral examination of one candidate each or an oral examination in groups (one can-						
				Language of assessment: German, English if agreed upon with the examiner						
	other prer	enuisit		Admission prerequisite to assessment: exercises (type and scope to be announced by the lecturer at the beginning of the						
	ourer prei	equisit	CC	ourse	e).					
10-I-AR-102-m01	Automatio	on and	Control Te	Technology						
	ECTS 8	0	Duration		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 o	fasses	sment w	written examination (approx. 80 to 90 minutes). If announced by the lecturer by four weeks prior to the examination date, the						
			W	written examination can be replaced by an oral examination of one candidate each or an oral examination in groups. A 80 to						
			9	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 a and a 40 minute (approx.) oral examination in groups of a						
			La	angu	age of assessment:	German, English if a	greed upon with the examiner		, , , , , , , , , , , , , , , , , , , ,	
	other prer	equisit	es A	dmis	sion prerequisite to	assessment: exercis	ses (type and scope to be annot	unced by the le	cturer at the beginning of the	
				ourse	e).			,	5 5	

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10-I-RK-102-m01	Comput	er Netv	vorks and	Comn	nunication Systems						
	ECTS	8	Duratio	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	ofasse	essment	writte	written examination (approx. 80 to 90 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. A 80 to		
				90 mi	nute written examinatio	nation is equivalent to	o a 20 minute (approx.) oral exa	amination of one	e candidate each, a 30 minute		
				langu	Language of assessment: German, English if agreed upon with the examiner						
	other prerequisites			Admi	Admission prerequisite to assessment: exercises (type and scope to be announced by the lecturer at the beginning of the						
				cours	Surse).						
10-I-SEM1-072-	Semina	r 1									
m01	ECTS 5 Duratio			1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			S (no	information on SWS	6 (weekly contact hou	rs) and course language availa	ble)			
	Method of assessment			writte	n elaboration and o	ral presentation with	subsequent discussion on a to	pic from the fie	ld of computer science (type and		
				length	ngth to be specified by the lecturer at the beginning of the course)						
	Language of assessment: German, English if required by the examination candidate										
10-I-SEM2-072-	Semina	r 2	Duration				and the stand stand stand		l un de nome du etc		
mor	ECIS	5	Duration	1	1 semester	Method of grading	numerical grade		undergraduate		
	Courses			S (no	information on SWS	s (weekly contact hou	rs) and course language availa	ble)			
	Method of assessment			length to be specified by the lecturer at the beginning of the course)							
				Language of assessment: German, English if required by the examination candidate							
10-I-REP-GY-092-	Review Course in Informatics for the Staatsexamen (Gymnasium)										
m01	ECTS	4	Duratio	า	2 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Courses	;		Ü (no	information on SWS	5 (weekly contact hou	rs) and course language availa	ble)			
	Method	ofasse	essment	comp	completion of project assignments, presentation (type and expenditure of time to be specified by the lecturer at the beginning						
	Databa			of the	of the course)						
10-I=DB2-102-m01		ses II	Duration				and the stand stand stand		l euro de este		
	ECIS	5	Duration	l V Ü	1 semester	Method of grading	numerical grade		graduate		
	Courses	5		V + U	(no information on)	SWS (weekly contact	nours) and course language av	ailable)			
	Method	ofasse	essment	writte	n examination (app	rox. 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 minu	tes, groups of 3: 25 minutes)	each or an ora	t examination in groups (one can-		
				Langu	age of assessment	: German, English if a	greed upon with the examiner				
	other pr	rerequis	sites	Where	e applicable, prereq	uisites as specified b	y the lecturer at the beginning	of the course (e	.g. completion of exercises).		

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10-I=DK-102-m01	Data C	Data Compression									
	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)						
	Metho	d of ass	essment	writte	n examination (appr	ox. 80 to 90 minutes). If announced by the lecturer	by four weeks p	prior to the examination date, the		
				writte	n examination can b	e replaced by an ora	l examination of one candidate	each or an oral	examination in groups. A 80 to		
				90 mi (annr	nute written examin ox) oral examination	ation is equivalent to	a 20 minute (approx.) oral examinate (approx.) oral examinate (approx.) oral exam	mination of one	ns of a		
				Langu	nguage of assessment: German, English if agreed upon with the examiner						
	other p	er prerequisites Where applicable, prerequisites as specified by the lecturer at the beginning of the course (e. g. completion of						. g. completion of exercises).			
10-I=PVS-102-m01	Progra	mming	of Distrib	uted Sy	/stems	· · ·	·				
	ECTS	8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V + Ü	(no information on S	WS (weekly contact	hours) and course language ava	ailable)			
	Metho	d of ass	essment	writte	n examination (appr	ox. 80 to 90 minutes). If announced by the lecturer	by four weeks p	rior 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 minute written examination is equivalent to a 20 minute (approx.) oral examination in groups of 2 and a 40 minute (approx.) oral examination in groups of 2 and a 40 minute (approx.) oral examination in groups of 3 and 3								initiation of one	ns of a		
				Langu	age of assessment:	German, English if a	greed upon with the examiner		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	other prerequisites Where applicable, prerequisites as specified by the lecturer a						y the lecturer at the beginning o	of the course (e	. g. completion of exercises).		
10-l=lR-102-m01	Inform	ation Re	trieval								
	ECTS	ECTS 5 Duration			1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V + Ü	(no information on S	SWS (weekly contact	hours) and course language av	ailable)			
	Metho	d of ass	essment	writte	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-							
				Langu	didate each: 15 minutes, groups of 2: 20 minutes, groups of 3: 25 minutes)						
	other p	rereaui	sites	Where	Where applicable, prerequisites as specified by the lecturer at the beginning of the course (e.g. completion of exercises)						
10-I=STM-102-m01	Natura	l Langua	age Proce	ssing	and Text Mining		,				
	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S	<u>,</u>	V + Ü	V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Metho	d of ass	essment	writte	n examination (appr	ox. 50 to 60 minutes); if announced by the lecturer	by four weeks p	rior to the examination date, the		
				writte	n examination can b	e replaced by an ora	l examination of one candidate	each or an oral	examination in groups (one can-		
				didate	e each: 15 minutes, g	groups of 2: 20 minut Cormon, English if or	es, groups of 3: 25 minutes)				
	othern	roroqui	itoc	Where	age of assessment:	visites as specified b	y the lecturer at the beginning	of the course (e	g completion of exercises)		
	υπειμ	nereyul	JICJ		. applicable, pieleyl	אסונכס מס סעכנווופע ש	ין נווכ וכנומוכו מו נווכ שכצוווווווצ נ	טי נווב נטעוצב (פ	· 5· COMPLETION OF EVELUSES).		

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10-l=Kl-102-m01	Artificia	al Intelli	gence						
	ECTS	8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate
	Course	S		V + Ü	(no information o	n SWS (weekly contac	t hours) and course language	available)	
	Method	l of asse	essment	writte	n examination (ap	prox. 80 to 90 minute	es); if announced by the lectu	rer by four weeks	prior to the examination date, the
				writte	n examination car	n be replaced by an or	al examination of one candid	ate each or an ora	l examination in groups (one can-
				didat	e each: 15 minutes	5, groups of 2: 20 mini at: German English if :	Ites, groups of 3: 25 minutes) or	
	other n	roroquis	itac	When	age of assessment	nuisites as specified	by the lecturer at the heginni	ng of the course (e	a completion of exercises)
10-l=FS-102-m01	Embed	ded Svs	toms	WIICI			by the lecturer at the beginn		
	ECTS	0	Duratio	n	1 comostor	Mothod of grading	numerical grade	Modulloval	graduato
	Course	0	Duration	n Iv, n	1 Semester				glauuale
	Courses	5		V + U	(no mormation of				• • • • • • • • •
	Method	l of asse	essment	writte	n examination (ap	prox. 80 to 90 minute	es). If announced by the lectu	rer by four weeks plate each or an ora	prior to the examination date, the
					inute written exam	ination is equivalent f	to a 20 minute (approx) oral	examination of on	e candidate each a 30 minute
				appr	ox.) oral examinat	ion in groups of 2 and	a 40 minute (approx.) oral ex	kamination in grou	ips of 3.
				Langu	lage of assessmer	nt: German, English if a	agreed upon with the examin	er	
	other p	rerequis	sites	Wher	e applicable, prere	equisites as specified	by the lecturer at the beginni	ng of the course (e	e.g. completion of exercises).
10-I=EL-102-m01	E-Learn	ning							
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	s		V + Ü	(no information or	n SWS (weekly contac	t hours) and course language	available)	
	Method	l of asse	essment	writte	n examination (ap	prox. 50 to 60 minute	s); if announced by the lectu	rer by four weeks p	prior to the examination date, the
				writte	n examination car	n be replaced by an or	al examination of one candid	ate each or an ora	l examination in groups (one can-
				didat	e each: 15 minutes	5, groups of 2: 20 mini	Ites, groups of 3: 25 minutes) or	
	othern	roroquis	itac	Whor	age of assessment	nuisites as specified	by the lecturer at the beginni	ng of the course (e	a completion of evercises)
10-l=R0-102-m01	Robotic	re leiequis	iles	Wilen			by the lecturer at the beginn		. g. completion of exercises).
101-1021101	FCTS	, . Q	Duratio	n	1 comostor	Mothod of grading	numorical grado	Modul loval	graduato
	ECT3	0	Duration	u Iv.ü	(no information o	Method of grading			gladuate
	Courses	5		V + U	(no information of	n SWS (weekly contact	t nours) and course language	available)	· · · · · · · · · · · · · · · · · · ·
	Method	l of asse	essment	writte	n examination (ap	prox. 80 to 90 minute	es). If announced by the lectural oxamination of one candid	rer by four weeks plate each or an ora	prior to the examination date, the
					inute written exam	ination is equivalent t	ro a 20 minute (approx) oral	examination of on	e candidate each a 30 minute
				(appr	ox.) oral examinat	ion in groups of 2 and	a 40 minute (approx.) oral ex	kamination in grou	ips of 3.
				Langu	lage of assessmer	nt: German, English if a	agreed upon with the examin	er	
	other p	rerequis	sites	Wher	e applicable, prere	equisites as specified	by the lecturer at the beginni	ng of the course (e	e. g. completion of exercises).

10-l=R02-102-m01	Roboti	cs II: Ne	tworked	Robots								
	ECTS	8	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es		V + Ü	(no information on	SWS (weekly contact	hours) and course language a	available)				
	Metho	d of ass	essment	writte	n examination (app	orox. 80 to 90 minute	s). 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	al examination of one candida	te each or an ora	l examination in groups. A 80 to			
				90 mi	nute written exami	nation is equivalent t	o a 20 minute (approx.) oral e	xamination of on	e candidate each, a 30 minute			
				Langu	age of assessment	t: German. English if a	a 40 minute (approx.) or at examine	r	ps 01 3.			
	other p	orerequi	sites	Where applicable, prerequisites as specified by the lecturer at the beginning of the course (e.g. completion of								
10-I=DDB-102-m01	Deduct	tive Data	abases				,	<u> </u>	<u> </u>			
	ECTS	8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es	<u>,</u>	V + Ü	(no information on	SWS (weekly contact	hours) and course language a	available)				
	Metho	d of ass	essment	writte	n examination (app	prox. 80 to 90 minute	s). 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	al examination of one candida	te each or an ora	l examination in groups. A 80 to			
				90 mi	nute written exami	nation is equivalent t	o a 20 minute (approx.) oral ex	xamination of on	e candidate each, a 30 minute			
				Langu	lage of assessment	t: German. English if a	a 40 minute (approx.) orat exa agreed upon with the examine	r	ps 01 3.			
	other	oreregui	sites	Where	applicable, prerec	quisites as specified	by the lecturer at the beginnin	g of the course (e	e.g. completion of exercises).			
10-I=LVS-102-m01	Analyt	ical Perf	ormance	Evaluation of Distributed Systems								
	ECTS	8	Duratio	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 a	available)	-			
	Metho	d of ass	essment	writte	n examination (app	prox. 80 to 90 minute	s). 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	al examination of one candida	te each or an ora	l examination in groups. A 80 to			
				90 mi	nute written exami	nation is equivalent t	o a 20 minute (approx.) oral e	xamination of on	e candidate each, a 30 minute			
				langu	lage of assessment	t: German, English if a	a 40 minute (approx.) oral exa	r	ps of 3.			
	other	oreregui	sites	Where	applicable, prerec	quisites as specified	by the lecturer at the beginnin	g of the course (e	e.g. completion of exercises).			
10-I=ST-102-m01	Simula	ation Teo	hniques	for Per	formance Evaluatio	<u>,</u> Du	,	<u> </u>	5			
	ECTS	8	Duratio	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 a	available)				
	Metho	d of ass	essment	written examination (approx. 80 to 90 minutes). If announced by the lecturer by four weeks prior to the examination date, th								
				writte	n examination can	be replaced by an ora	al examination of one candida	te 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 m									
				lappr	(approx.) oral examination in groups of 2 and a 40 minute (approx.) oral examination in groups of 3.							
	otherp	orerequi	sites	Where	e applicable, prerec	quisites as specified	by the lecturer at the beginnin	g of the course (e	e. g. completion of exercises).			

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10-I=AUT-102-m01	Auton	nata The	ory								
	ECTS	5	Duratio	n	1 semester	Method of grading numerical	grade	Modul level	graduate		
	Cours	es		V + Ü	+ Ü (no information on SWS (weekly contact hours) and course language available)						
	Metho	od of ass	essment	writte writte didate Langu	vritten examination (approx. 50 to 60 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 (one can- lidate 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	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=BER-102-m01	Comp	utability	Theory								
	ECTS	5	Duratio	n	1 semester	Method of grading numerical	grade	Modul level	graduate		
	Cours	es	_	V + Ü	Ü (no information on SWS (weekly contact hours) and course language available)						
	Metho	od of ass	essment	writte writte didate Langu	tten examination (approx. 50 to 60 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 (one can- late each: 15 minutes, groups of 2: 20 minutes, groups of 3: 25 minutes) nguage of assessment: German, English if agreed upon with the examiner						
	other	prerequi	sites	Admis cours	ssion prerequisite to e).	assessment: exercises (type an	d scope to be anno	unced by the le	cturer at the beginning of the		
10-I=ML-102-m01	Mathe	ematical	Logic								
	ECTS	5	Duratio	1	1 semester	Method of grading numerical	grade	Modul level	graduate		
	Cours	es		V + Ü	V + U (no information on SWS (weekly contact hours) and course language available)						
	Metho	od 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	Admission prerequisite to assessment: exercises (type and scope to be announced by the lecturer at the beginning of the course).							
10-l=KT2-122-m01	Advan	ced Topi	cs in Con	nputati	onal Complexity						
	ECTS	ECTS 5 Duration			1 semester	Method of grading numerical	grade	Modul level	graduate		
	Cours	es	-	V + Ü	V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Metho	od 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 to e).	assessment: exercises (type an	id scope to be annot	unced by the le	cturer at the beginning of the		

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10-I=KD-102-m01	Crypto	graphy a	and Data	Securi	ty							
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	!S	•	V + Ü	(no information on S	SWS (weekly contact hours) and course language av	ailable)					
	Metho	d of asse	essment	writte writte didate	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 candidate each; 15 minutes, groups of 2; 20 minutes, groups of 2; 21 minutes)							
				Langu	age of assessment:	German, English if agreed upon with the examiner						
	other p	rerequis	sites	Where	e applicable, prereq	uisites as specified by the lecturer at the beginning	of the course (e	. g. completion of exercises).				
10-l=AG-102-m01	Computational Geometry											
	ECTS	5	Duratio	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 language av	ailable)					
	Method of assessment written examination (approx. 50 to 60 minutes); if announced by the lecturer by four weeks prior to the examination written examination can be replaced by an oral examination of one candidate each or an oral examination in groups 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 prerequisites Where applicable, prerequisites as specified by the lecturer at the beginning of the course (e.g. completion of											
10-I=APA-102-m01	101 Approximation Algorithms											
	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	writte writte didate Langu	n examination (app n examination can b e each: 15 minutes, s lage of assessment:	rox. 50 to 60 minutes); if announced by the lecturer be replaced by an oral examination of one candidate groups of 2: 20 minutes, groups of 3: 25 minutes) German, English if agreed upon with the examiner	by four weeks p e each or an ora	prior to the examination date, the l examination in groups (one can-				
	other p	r prerequisites Where applicable, prerequisites as specified by the lecturer at the beginning of the course (e.g. completion of exercises)						. g. completion of exercises).				
10-l=VG-102-m01	Visuali	zation o	f Graphs									
	ECTS	5	Duratio	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 language av	ailable)					
	Metho	d of asse	essment	writte writte didate Langu Where	n examination (app n examination can b e each: 15 minutes, lage of assessment:	rox. 50 to 60 minutes); if announced by the lecturer be replaced by an oral examination of one candidate groups of 2: 20 minutes, groups of 3: 25 minutes) German, English if agreed upon with the examiner uisites as specified by the lecturer at the beginning	by four weeks p each or an ora	prior to the examination date, the l examination in groups (one can-				

						· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	A				
10-I=A-	Algorit	hms for	Geograp	hic Info	ormation Systems	1						
GIS-102-m01	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V + Ü	V + Ü (no information on SWS (weekly contact hours) and course language available)							
	Method	d of asse	essment	writte	n examination (ap	prox. 50 to 60 minutes	s); if announced by the lecturer	by four weeks p	prior to the examination date, the			
				writte	n examination car	be replaced by an ora	l examination of one candidate	each or an oral	l examination in groups (one can-			
				Langi	age of assessmer	it: German, English if a	greed upon with the examiner					
	other p	rerequi	sites	Where	/here applicable, prerequisites as specified by the lecturer at the beginning of the course (e.g. completion of exercises).							
10-I=CB-102-m01	Compil											
	ECTS	8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V + Ü	(no information or	n SWS (weekly contact	hours) and course language av	ailable)				
	Method	d of asse	essment	writte	n examination (ap	prox. 80 to 90 minute	s). If announced by the lecturer	by four weeks p	prior to the examination date, the			
				writte	n examination car	the replaced by an ora	Il 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 3 (approx.) oral examination in groups of 2.											
				Langu	lage of assessmer	it: German, English if a	greed upon with the examiner		55013.			
	other p	rerequi	sites	Where	e applicable, prere	quisites as specified k	by the lecturer at the beginning (of the course (e	. g. completion of exercises).			
10-I=PA-102-m01	Progra	m Desig	n and An	alysis								
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V + Ü	(no information or	n SWS (weekly contact	hours) and course language ava	ailable)				
	Method	d of asse	essment	writte	n examination (ap	prox. 50 to 60 minutes	;); if announced by the lecturer	by four weeks p	prior to the examination date, the			
				writte	n examination car	be replaced by an ora	l examination of one candidate	each or an oral	examination in groups (one can-			
				langi	age of assessmer	it German. English if a	greed upon with the examiner					
	other p	prerequi	sites	Wher	e applicable, prere	auisites as specified t	by the lecturer at the beginning		e.g. completion of exercises).			
10-I=RAM-102-m01	Compu	ter Aritl	nmetic		- upp	dulottoo do apartemento			3. compression et annue			
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V + Ü	(no information or	n SWS (weekly contact	hours) and course language av	ailable)	1.			
	Metho	d of asso	essment	writte	n examination (ap	prox. 50 to 60 minutes	; if announced by the lecturer	by four weeks p	prior to the examination date, the			
				writte	n examination car	i be replaced by an ora	Il examination of one candidate	each or an oral	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 assessmer	it: German, English if a	greed upon with the examiner					
	other p	rerequis	sites	Where	e applicable, prere	equisites as specified t	by the lecturer at the beginning (of the course (e	. g. completion of exercises).			

06-MK-	Compute	r Scier	nce in Me	edia 1							
MedInf1-102-mo1	ECTS 6	,	Duratior	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			V + T (no information on	SWS (weekly contact	nours) and course lar	nguage available)			
	Method o	ofasse	ssment	a) wri	tten examination (approx. 60 minutes) o	r b) written examinati	on (approx. 40 minutes) v	with exercises (40 hours), weigh-		
				ted 5:	1 or c) oral examin	ation of one candidate	each (approx. 30 mi	nutes) or d) presentation	(15 to 30 minutes) with written		
				Langu	lage of assessmen	it: German, English	15 to 20 pages) of 1) p	ontono (maximum 20 pa	863)		
	Participar	nts and	d allo-	Digita	l Humanities Mast	ter's (120 ECTS): maxim	num 10 places. Places	s will be allocated accord	ing to the number of subject se-		
	cation of	places	5	meste	nesters. Among applicants with the same number of subject semesters, places will be allocated by lot.						
06-MK-	Compute	r Scier	nce in Me	edia 2							
MedInf2-102-mo1	ECTS 6	,	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			V + Ü	(no information or	n SWS (weekly contact	hours) and course lar	nguage available)			
	Method o	ofasse	ssment	a) wri	tten examination (approx. 60 minutes) o	r b) written examinati	on (approx. 40 minutes)	with exercises (40 hours), weigh-		
				ted 5:	1 or c) oral examin ration (10 to 15 pa	ation of one candidate	each (approx. 30 mi	nutes) or d) presentation	(15 to 30 minutes) with written		
				Langu	lage of assessmen	it: German, English	15 to 20 pages) of 1) p	ontono (maximum 20 pa,	503)		
	Participar	nts and	d allo-	Digita	l Humanities Mast	ter's (120 ECTS): maxim	num 10 places. Places	s will be allocated accord	ing to the number of subject se-		
	cation of	places	5	meste	ers. Among applica	ants with the same nun	nber of subject semes	sters, places will be alloca	ated by lot.		
Teaching (10 ECTS	credits)										
10-I-DDI1-092-m01	Didactics	of Info	ormatics	ics 1							
	ECTS 4		Duratior	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			V + Ü	(no information or	n SWS (weekly contact	hours) and course lar	nguage available)			
	Method o	ofasse	ssment	writte	n examination (ap	prox. 50 to 60 minutes); if announced by th	e lecturer by four weeks p	prior to the examination date, the		
				didate	n examination car	be replaced by an ora	l examination of one	candidate each or an ora	l examination in groups (one can-		
	other pre	requis	ites	Admie	sion prerequisite	to assessment. exercis	ses (type and scope to	o be announced by the le	cturer at the beginning of the		
	other pre-	requis	ites	cours	e).		its (type and scope to	o be announced by the le			
	Referred t	to in LF	PO I	§69 (1) 2. Informatik Di	daktik					
10-l-DDl2-092-m01	Didactics	of Info	ormatics	2							
	ECTS 4 Duration				1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			V + Ü	(no information or	n SWS (weekly contact	hours) and course lar	nguage available)			
	Method o	ofasse	ssment	writte	n examination (ap	prox. 50 to 60 minutes); if announced by th	e lecturer by four weeks p	prior to the examination date, the		
				writte	n examination car	be replaced by an ora	l examination of one	candidate each or an ora	l examination in groups (one can-		
	othorpro	roquic	itee	Admi	e each: 15 minutes	s, groups of 2: 20 minu	tes, groups of 3: 25 m	nnules)	aturar at the beginning of the		
	other pre	requis	nes	Admission prerequisite to assessment: exercises (type and scope to be announced by the lecturer at the beginning of the course).							
	Referred t	to in Ll	PO I	§ 69 (1) 2. Informatik Di	daktik					
L				- / `	-	1		1			

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10-I-DPAI-092-m01	Practical Cours	se in the <i>l</i>	Applica	tion of Informatics	Systems from a Dida	ctical Point of View					
	ECTS 2	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses		P (no	information on SWS	(weekly contact hou	rs) and course language availa	ıble)				
	Method of ass	essment	comp of the	npletion of project assignments, presentation (type and expenditure of time to be specified by the lecturer at the beginning he course)							
	Referred to in I	PO I	§69(1) 2. Informatik Dida	aktik						
Freier Bereich (general as well as subject-specific electives) Teaching degree students must take modules worth a total of 15 ECTS credits in the area Freier Bereich (general as well as subject-specific electives) (Section 9 LASPO (general academic and examination regulations for teaching-degree programmes)). To achieve the required number of ECTS credits, students may take any modules from the areas below. Freier Bereich interdisciplinary: The interdisciplinary additional offer for a teaching degree can be found in the respective Annex "Ergänzende Bestimmungen für den "Freien Bereich" im Rahmen des Studiums für ein Lehramt".											
Computer Science	eral as well as s	subiect-si	pecific	electives) subiect	specific)						
10-I-DS-092-m01	Seminar Didac	tics of In	formati	cs							
	ECTS 4	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		S (no	information on SWS	(weekly contact hou	rs) and course language availa	ible)				
	Method of assessment written elaboration (approx. 20 to 25 pages) and oral presentation (approx. 60 minutes) with subsequent discussion (ap 15 minutes) on a topic from the field of computer science didactics Assessment offered: usually only in the semester in which the course is offered										
10-I-DV-092-m01	Advanced Topics of Didactic of Informatics										
	ECTS 4	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	-	S (no	information on SWS	(weekly contact hou	rs) and course language availa	able)				
	Method of ass	essment	writte 15 mii Asses	n elaboration (appro nutes) on a topic fro ssment offered: usua	ox. 20 to 25 pages) a m the field of compu ally only in the semes	nd oral presentation (approx. 6 ter science didactics ster in which the course is offer	o minutes) with red	n subsequent discussion (approx.			
10-I-DP-092-m01	Practical Cours	se in Dida	ctics o	f Informatics							
	ECTS 4	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses		P (no	information on SWS	(weekly contact hou	rs) and course language availa	ible)				
	Method of assessment completion of project assignments, presentation (type and expenditure of time to be specified of the course) Assessment offered: usually only in the semester in which the course is offered										
10-I-DPP-092-m01	P2-m01 Advanced Practical Course in Didactics of Informatics										
	ECTS 8	Duratio	on 2 semester Method of gradin		Method of grading	numerical grade	Modul level	undergraduate			
	Courses		P + S	(no information on S	SWS (weekly contact	hours) and course language av	vailable)				
	Method of ass	essment	projeo Asses	ct and implementations and implementations and implementations and the second s	on thereof: drawing u ally only in the semes	up a project plan (approx. 10 pa ster in which the course is offer	ages) and practi ed	ical implementation with pupils			
	other prerequi	sites	Admis cours	ssion prerequisite to e).	assessment: exerci	ses (type and scope to be anno	ounced by the le	ecturer at the beginning of the			
LA Gymnasien Computer	Science (2009)					JMU Würzburg • generated 26-Aug-2	024 • exam. reg. data	record L5 079 - - H 2009 page 16 / 17			

Thesis (10 ECTS credits)

Preparation of a written Hausarbeit (thesis) in accordance with the provisions of Section 29 LPO I (examination regulations for teaching-degree programmes) is a prerequisite for teaching degree students to be admitted to the Erste Staatsprüfung (First State Examination). In accordance with the provisions of Section 29 LPO I, students studying for a teaching degree Gymnasium may write this thesis in one of the subjects they selected as vertieft studiertes Fach (subject studied with a focus on the scientific discipline) or in the subject Erziehungswissenschaften (Educational Science). Pursuant to Section 29 Subsection 1 Sentence 2 LPO I, students may also choose to write an interdisciplinary thesis.

10-I-HA-GY-092-	Thesis	esis Informatics (Gymnasium)											
m01	ECTS	10	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S											
	Methoo	d of asse											
	Module comple	es succe eted	ssfully	Where	e applicable, specifi								
	Additio	nal Info											
	Additio												