

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: Faculty of Mathematics and Computer Science

Responsible: Institute of Computer Science

Examination regulations version: 2015

Examination regulations version: 2015

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

= lecture

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

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

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

= list of modules

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

Conventions for the modules in this SFB: ditable for bonus.

Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not cre-

Information on Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the meassessment procedures: thod of assessment to be used in the current semester by two weeks after the start of the course at the latest and will communicate this in the customary manner.

Should a module comprise more than one graded assessment, all assessments will be equally weighted, unless otherwise stated below.

Should the assessment comprise several individual assessments, successful completion of the module will require successful completion of all individual assessments.

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

LASP02015

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

08-Sep-2015 (2015-120)

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

Every module will be described using the following form:

Abbreviation	Module title										
	ECTS		Duration	(in semesters)	Method of grading		Module level				
	Courses		To be spe	be specified in the form X (y) with course type X abbreviated as specified above and number of weekly contact hours y							
	Method of as	ssessm	ent								
	Only after su completion of		ıl if applica	f applicable							
	Other prereq	uisites	if applica	if applicable							
	Participants on of places		ocati- if applica	if applicable							
	Additional in	format	ion if applica	if applicable							
	Referred to in	n LPO I	if applica	if applicable (examination regulations for teaching-degree programmes)							

Scientific Disciplin	e (92 ECTS cre	edits)								
Compulsory Course	es (65 ECTS cr	edits)								
General Compulsor	ry Courses (55	ECTS credi	ts)							
10-l-EinP-152-m01	Introduction	to Program	ıming							
	ECTS 5			1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			V (2) + Ü (2)						
	Method of as			written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). creditable for bonus						
	Referred to i	n LPO I	§ 49 I § 69 I	Nr. 1b Nr. 1b						
10-I-DB-152-m01	Data Bases									
	ECTS 5 Duratio		n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			+ Ü (2)						
	Method of as	ssessment	If ann of one date). Langu	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per cadate). Language of assessment: German and/or English creditable for bonus						
	Referred to i	n LPO I	§ 49 Nr. 1b § 69 Nr. 1b							
10-I-ST-152-m01	Software Tec	hnology								
	ECTS 10	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V (4) -	+ Ü (2)						
	Method of as	ssessment	If ann of one date).	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examinatio of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). creditable for bonus						
	Referred to i	n LPO I	§ 49 Nr. 1b § 69 Nr. 1b							

10-l-ADS-152-m01	Algorit	hms and	data str	ucture	S								
	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S		V (4) -	+ Ü (2)								
	Method	of asse		written examination (approx. 60 to 120 minutes).									
				If ann	f announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candilate).								
					reditable for bonus								
	Referre	d to in L			49 Nr. 1a 69 Nr. 1a								
10-I-PP-152-m01	Practical Course in Programming												
	ECTS	10	Duration		<u> </u>	Method of grading	(not) successfully completed	Modul level	undergraduate				
	Course	S		P (6)					, ,				
	Method of assessment			If ann	rritten examination (approx. 60 to 120 minutes). announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination f one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-								
	Referre	d to in L			Nr. 1c Nr. 1d								
10-I-SWP-152-m01		al cours	e in softw	<i>r</i> are									
	ECTS 10 Duratio				1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate				
	Courses			P (6)									
	Method of assessment			practical project (Completion of a larger software project in groups (approx. 300 hours per person) and final presentation (approx. 10 minutes per group)									
	Modules successfully completed			10-I-PP, 10-I-ST									
	other prerequisites			In addition, the knowledge and skills acquired in module 10-I-ADS are required. Prior attendance of this module is therefore highly recommended.									
	Referre	d to in L	PO I	§ 69 Nr. 1d									
10-I-TEl1-152-m01	Technic	cal Infor	matics I										
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S		V (2) -	+ Ü (2)								
	Method of assessment			If ann of one date). Langu credit	ounced by the lect e candidate each (turer at the beginning approx. 20 minutes) o at: German and/or Eng	of the course, the written exam or an oral examination in groups glish	ination may be s of 2 candidate	replaced by an oral examination s (approx. 15 minutes per candi-				
	Referre	d to in L	PO I	§ 69 l	Nr. 1c: Rechnerne	tze und Betriebssyste	me						

Theoretical Compu	ter Scier	1ce (10	ECTS cred	lits)								
10-I-TIV-152-m01	Theore	tical Inf	ormatics									
	ECTS	5	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S	•	V (4)	<i>I</i> (4)							
	Method	Method of assessment			written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate).							
	Referre	Referred to in LPO I			§ 49 Nr. 1a § 69 Nr. 1a							
10-I-TIT-152-m01	Tutoria	l Theor	etical Info	rmatio	:S							
	ECTS	5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses			Ü (2)								
	Method	d of ass	essment		a) completion of approx. 11 exercises with approx. 4 components each (50% to be completed correctly) or b) written examination (approx. 180 to 240 minutes). Method of assessment to be selected by the candidate.							
	Referred to in LPO I				§ 49 Nr. 1a § 69 Nr. 1a							
Compulsory Electiv	/es (27 E	es (27 ECTS credits)										
Technical Compute	er Science II (5 ECTS credits)											
10-I-RAK-152-m01	Compu	ter Arch	nitecture									
	ECTS	5	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		V (2)	+ Ü (2)			•				
	Method of assessment			written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus								
	Referred to in LPO I			§ 22 II Nr. 3b § 69 I Nr. 1c: Rechnerarchitektur								

10-I-RALV-152-m01	Digital	Digital computer systems											
	ECTS	5	Duration	ı 1 sem	ester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S	,	V (4)									
	Method	d of ass	essment	If announced	d by the lect		of the course, the writte		replaced by an oral examination s (approx. 15 minutes per candi-				
	other p	rerequi	sites	Simultaneou	imultaneous completion of module 10-I-RALT is recommended.								
	Referre	d to in I		§ 22 II Nr. 3b § 69 I Nr. 1c:	, and the second								
General Compulsor	y Electiv	ves (22	ECTS cred	its)									
10-I-RAK-152-m01	Compu	ter Arch	itecture										
	ECTS 5 Duratio			n 1 sem	ester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S		V (2) + Ü (2)					-				
	Method of assessment			If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus									
		d to in I		§ 22 II Nr. 3b § 69 I Nr. 1c: Rechnerarchitektur									
10-I-RALV-152-m01		tal computer systems											
	ECTS	5	Duration		ester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S		V (4)									
	Method of assessment			written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate).									
	other p	rerequi	sites	Simultaneou	s completio	on of module 10-I-RALT	is recommended.						
	Referre	d to in I		§ 22 II Nr. 3b § 69 I Nr. 1c: Rechnerarchitektur									
10-I-RALT-152-m01	Tutoria	l Digita	l compute	r systems									
	ECTS	5	Duration	ı 1 sem	ester	Method of grading	(not) successfully com	npleted Modul level	undergraduate				
	Course	S		Ü (2)				•					
	Method	d of ass	essment	a) completion of approx. 11 exercises with approx. 4 components each (50% to be completed correctly) or b) written examination (approx. 180 to 240 minutes). Method of assessment to be selected by the candidate.									
	Referred to in LPO I			§ 22 II Nr. 3b									

10-l-lÜ-152-m01	Informa	ation Tra	ansmissio	on								
	ECTS	10	Duration	1	1 semester	Method of grading numer	ical grade	Modul level	undergraduate			
	Course	S		V (4)	+ Ü (2)			-				
	Method of assessment			If ann of one date)	vritten examination (approx. 60 to 120 minutes). f announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination f one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candilate). reditable for bonus							
	Referre	d to in L	.PO I		l Nr. 3b							
10-I-HWP-152-m01	Practical course in hardware											
	ECTS 10 Duratio				1 semester	Method of grading (not) s	uccessfully completed	Modul level	undergraduate			
	Course	S	,	P (6)	•	<u> </u>		•				
	Method of assessment				olio: completion of tes per project)	approx. 3 to 10 project assign	ıments (approx. 250 hou	urs total) and pi	resentation of results (approx. 10			
	Referre	d to in L	PO I	§ 22 l	22 II Nr. 3b							
10-I-LOG-152-m01	Logic for informatics											
	ECTS 5 Duratio			ı	1 semester	Method of grading numer	ical grade	Modul level	undergraduate			
	Course	Courses			+ Ü (2)							
	Method of assessment			If ann of one date) Langu	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examin of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per conditate). Language of assessment: German and/or English creditable for bonus							
	Referre	d to in L	PO I	§ 22 l	l Nr. 3b							
10-I-AGT-152-m01	Algorit	hmic Gr	aph Theo	ry								
	ECTS	5	Duration	ı	1 semester	Method of grading numer	ical grade	Modul level	undergraduate			
	Course	S		V (2)	+ Ü (2)							
	Method	d of asse	essment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus								
	Referre	Referred to in LPO I			l Nr. 3b							

10-l-lCG-152-m01	Interactive	e Computer Gr	raphics								
	ECTS 5	Duration	n 1 semester	Method of grading numerical grad	le Modul level	undergraduate					
	Courses		V (2) + Ü (2)		,						
	Method of	assessment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination								
			of one candidate each date).	f one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candiate). anguage of assessment: German and/or English							
	Referred to	o in LPO I	§ 22 II Nr. 3b								
10-I-WBS-152-m01	Knowledg	e-based Syste	ems		'						
	ECTS 5	Duration	n 1 semester	Method of grading numerical grad	le Modul level	undergraduate					
	Courses		V (2) + Ü (2)								
			If announced by the lo of one candidate each date). Language of assessm creditable for bonus	anguage of assessment: German and/or English							
	Referred to	o in LPO I	§ 22 II Nr. 3b			-					
10-I-DM-152-m01	Data Mining										
	ECTS 5	Duration		Method of grading numerical grad	e Modul level	undergraduate					
	Courses		V (2) + Ü (2)								
	Method of	assessment	If announced by the loof one candidate each date).	(approx. 60 to 120 minutes). ecturer at the beginning of the course, the h (approx. 20 minutes) or an oral examina nent: German and/or English							
	Referred to	o in LPO I	§ 22 II Nr. 3b	§ 22 II Nr. 3b							
10-I-00P-152-m01		ented Progran									
	ECTS 5	Duration		Method of grading numerical grad	le Modul level	undergraduate					
	Courses		V (2) + Ü (2)								
	Method of	assessment	If announced by the loof one candidate each date).	Language of assessment: German and/or English							
1	Referred to		§ 22 II Nr. 3b								

10-l-KT-152-m01	Computatio	nal Complex	city								
	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Courses	·	V (2)	+ Ü (2)		·					
	Method of a	ssessment	writte	written examination (approx. 60 to 120 minutes).							
			If anr	If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination							
				f one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candiate). anguage of assessment: German and/or English reditable for bonus							
	Referred to	in LPO I	§ 22	II Nr. 3b							
10-I-KD-152-m01	Cryptograp	hy and Data	Secur	ity							
	ECTS 5	Duratio		1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Courses		V (2)	+ Ü (2)			_				
	Method of a	assessment	If anr of on date) Lang	ritten examination (approx. 60 to 120 minutes). announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per canditate). Inguage of assessment: German and/or English editable for bonus							
	Referred to	in LPO I	§ 22	II Nr. 3b			-				
10-l-3D-152-m01	3D Point Cloud Processing										
	ECTS 5	Duratio		1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Courses		V (2)	+ Ü (2)	<u>, </u>	•					
	Method of a	assessment	If anr of on date) Lang	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by a of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 date). Language of assessment: German and/or English creditable for bonus							
	Referred to	in LPO I	§ 22	II Nr. 3b							
10-l-RK-152-m01	Computer N	letworks and	Comr	nunication Systen	ns						
	ECTS 8	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Courses		V (4)	+ Ü (2)		`					
	Method of a	assessment	If anr of on date) Lang	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus							
	Referred to	in LPO I	§ 22	II Nr. 3b		-					

10-I-SEM1-152-m01	Semina	ar 1					,					
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	S		S (2)	S (2)							
	Method	d of ass	essment	pic fr	written elaboration (approx. 10 to 15 pages) and presentation (approx. 30 to 45 minutes) with subsequent discussion on a topic from the field of computer science Language of assessment: German and/or English							
	Referre	d to in	LPO I	§ 22 l	3 22 II Nr. 3b							
10-I-PV-152-m01	Project	Presen	itation									
	ECTS	5	Duratio		1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	S		S (5)								
	Method of assessment			ter sc	presentation of a project developed by the candidate analogous to a presentation for laypersons with a knowledge of computer science at a trade fair as well as discussion (approx. 10 to 15 minutes total) Language of assessment: German and/or English							
	Referre	d to in	LPO I	§ 22 l	§ 22 II Nr. 3b							
10-l=AA-152-m01	Advanced Automation											
	ECTS 8 Duratio			n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses			V (4)	+ Ü (2)							
	Method of assessment				en examination (a table for bonus	pprox. 60 to 120 minutes)						
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT,IS,ES,LR,GE								
10-l=A-	Algorithms for Geographic Information Systems											
GIS-152-m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (2) + Ü (2)								
	Method of assessment			If ann of on date) Langu	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus							
	Referre	d to in	LPO I	§ 22 l	I Nr. 3b							

10-l=AG-152-m01	Compu	tational	l Geometr	ry								
	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (2)	+ Ü (2)			*	-			
	Method	d of asso	essment		written examination (approx. 60 to 120 minutes).							
				If ann	If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination							
					of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus							
	Referre	d to in L	LPO I	§ 22 l	l Nr. 3b							
10-l=APA-152-m01	Approx	imation	n Algorith	ms				'				
	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (2)	+ Ü (2)							
	Method of assessment			If ann of on date) Langu	ritten examination (approx. 60 to 120 minutes). announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination f one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candiate). anguage of assessment: German and/or English reditable for bonus							
	Referre	d to in L	PO I		l Nr. 3b							
10-l=AUT-152-m01	Automata Theory											
	ECTS 5 Duration 1 semester Method of grading numerical grade Modul level graduate								graduate			
	Course			V (2)	+ Ü (2)	į s		· ·	13			
	Method of assessment			If ann of on date) Langu	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examof one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes pedate). Language of assessment: German and/or English creditable for bonus							
	Referre	d to in L	LPO I	§ 22 l	l Nr. 3b							
10-l=AVS-152-m01	Avionio	s Syste	ems									
	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (2)	+ Ü (2)	·		·				
	Method	d of asso	essment	If ann of on date) Langu	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus							
				0.00								

10-l=BER-152-m01	Compu	tability	Theory				,					
	ECTS	5	Duratio	า	1 semester	Method of grading numerical grade	Modu	l level	graduate			
	Course	S		V (2) ·	+ Ü (2)		,					
	Method	l of ass	essment	If ann	vritten examination (approx. 60 to 120 minutes). f announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus							
				Langu credit								
	Referre			§ 22 l	l Nr. 3b							
10-l=CB-152-m01			truction									
	ECTS	5	Duratio		1 semester	Method of grading numerical grade	Modu	l level	graduate			
	Course	S		V (2) ·	+ Ü (2)							
	Method of assessment			If ann of one date). Langu	ritten examination (approx. 60 to 120 minutes). announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candiate). inguage of assessment: German and/or English editable for bonus							
	Referre	d to in	LPO I	§ 22 l	l Nr. 3b							
10-l=EL-152-m01	E-Learning											
	ECTS	5	Duratio	1	1 semester	Method of grading numerical grade	Modu	l level	graduate			
	Course	S		V (2) -	+ Ü (2)	·						
	Method of assessment			If ann of one date). Langu credit	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 midate). Language of assessment: German and/or English creditable for bonus							
	Referre	d to in	LPO I	§ 22 l	l Nr. 3b							
10-I=ES-152-m01	Embed	<u>_</u>	stems									
	ECTS	8	Duratio		1 semester	Method of grading numerical grade	Modu	l level	graduate			
	Course			V (4) ·	+ Ü (2)							
	Method of assessment			If ann of one date). Langu	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus							
	Referre	d to in	LPO I	§ 22 l	l Nr. 3b							

10-I=PA-152-m01	Analysis an	d Design of	Programs								
	ECTS 5	Duratio	1 semester	Method of grading numeri	cal grade	Modul level	graduate				
	Courses		V (2) + Ü (2)	,		,					
	Method of a	ssessment	written examination (approx. 60 to 120 minutes).								
			of one candidate each date).	anguage of assessment: German and/or English							
	Referred to i	n LPO I	§ 22 II Nr. 3b								
10-l=IR-152-m01	Information	Retrieval									
	ECTS 5	Duratio	1 semester	Method of grading numeri	cal grade	Modul level	graduate				
	Courses		V (2) + Ü (2)								
			If announced by the le of one candidate each date).	anguage of assessment: German and/or English							
	Referred to i	in LPO I	§ 22 II Nr. 3b								
10-l=KT2-152-m01	Computational Complexity II										
	ECTS 5	Duratio	1 semester	Method of grading numeri	cal grade	Modul level	graduate				
	Courses		V (2) + Ü (2)								
	Method of a	ssessment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minute date). Language of assessment: German and/or English creditable for bonus								
	Referred to i	in LPO I	§ 22 II Nr. 3b								
10-l=Kl1-152-m01	Artificial Int	elligence I									
	ECTS 5	Duratio	1 semester	Method of grading numeri	cal grade	Modul level	graduate				
	Courses		V (2) + Ü (2)								
	Method of a	ssessment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus								
	Referred to i	in LPO I	0 § 22 Nr. 3b								

10-l=Kl2-152-m01	Artificia	al Intell	ligence 2				,					
	ECTS	5	Duration	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	5		V (2)	+ Ü (2)							
	Method	l of ass	essment	If ann	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-							
				date) Langı								
	Referre	d to in	LPO I	§ 22 l	l Nr. 3b							
10-l=LVS-152-m01	Perforn	nance E	valuation	of Dis	tributed Systems		·					
	ECTS	8	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (4)	+ Ü (2)							
				If ann of one date) Langu credit	vritten examination (approx. 60 to 120 minutes). f announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candilate). anguage of assessment: German and/or English reditable for bonus							
	Referre	d to in	LPO I	§ 22 l	l Nr. 3b							
10-l=ML-152-m01	Mathematical Logic											
	ECTS	5	Duratio	1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (2)	+ Ü (2)							
	Method of assessment			written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes p date). Language of assessment: German and/or English creditable for bonus								
	Referre	d to in	LPO I	§ 22 l	l Nr. 3b							
10-l=Ml-152-m01	Medica	l Inforr	natics									
	ECTS	5	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate				
	Course			` ′	V (2) + Ü (2)							
	Method of assessment			If ann of one date) Langu	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus							
	Referre	d to in	LPO I	§ 22 l	l Nr. 3b							

10-I=PEB-152-m01	Perform	nance Er	ngineerin	g & Be	enchmarking of Com	puter Systems		'				
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5		V (2) +	+ Ü (2)							
	Method	l of asse	essment	If ann of one date). Langu	ritten examination (approx. 60 to 120 minutes). fannounced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination fone candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). anguage of assessment: German and/or English reditable for bonus							
	Referre	d to in I	PO I		I Nr. 3b				-			
10-I=PM-152-m01			roject Ma					,				
		5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			V (2)			2. 2		10			
	Method of assessment			If ann of one date).	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus							
	other prerequisites			Simul	taneous completion	of module 10-I=PRJ i	s recommended.					
	Referre	d to in L	PO I	§ 22 II Nr. 3b								
10-l=RAM-152-m01	Compu	ter Arith	metic									
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			V (2) -								
	Method	l of asse	essment	If ann of one date). Langu	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 mi date). Language of assessment: German and/or English creditable for bonus							
	Referre	d to in L	PO I	§ 22 l	l Nr. 3b							
10-l=R01-152-m01												
	ECTS	8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	S		V (4) + Ü (2)								
	Method of assess				written examination (approx. 60 to 90 minutes) creditable for bonus							
	Additio	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IS,ES,LR,HCI							

10-I=RO2-152-m01	Roboti	CS 2				,		,					
	ECTS	8	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		V (4)	+ Ü (2)	,		,					
	Method	d of ass	essment		vritten examination (approx. 60 to 90 minutes) reditable for bonus								
	Additio	nal Info	rmation		Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): T,ES,LR								
10-l=ST-152-m01	Discret	e Event	Simulation	ition									
	ECTS 8 Duration			<u> </u>	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			V (4)	+ Ü (2)								
				If anr of on date) Langi	ritten examination (approx. 60 to 120 minutes). announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination f one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- ate). anguage of assessment: German and/or English reditable for bonus								
	Referre	d to in l	LPO I	§ 22 l	II Nr. 3b								
10-l=SSD-152-m01	Spaced	raft Sys	stem Desi	gn	n								
	ECTS	8	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course			. 12	+ Ü (2)								
	Method	d of ass	essment		written examination (approx. 60 to 120 minutes) creditable for bonus								
	Additio	nal Info	rmation		Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): ES, LR								
10-l=VG-152-m01	Visuali	zation c	of Graphs										
	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		V (2)	+ Ü (2)	'							
	Method	d of ass	essment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus									
	Referre	d to in l	LPO I	§ 22 l	I Nr. 3b								

10-l=A-	Selected To	opics in Algo	rithms and Theory			,					
KAT-152-mo1	ECTS 5	Duratio	n 1 semester	Method of grading numeric	al grade	Modul level	graduate				
	Courses	·	V (2) + Ü (2)								
	Method of	assessment		pprox. 60 to 120 minutes).							
			If announced by the le	If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-							
			date).	late). anguage of assessment: German and/or English							
			Language of assessme								
			reditable for bonus								
	Referred to		§ 22 II Nr. 3b								
10-I=AK-			vare Engineering								
SE-152-m01	ECTS 5	Duratio		Method of grading numeric	al grade	Modul level	graduate				
	Courses		V (2) + Ü (2)								
	Method of	assessment	written examination (a	pprox. 60 to 120 minutes).							
			If announced by the le	cturer at the beginning of the cou (approx. 20 minutes) or an oral e	irse, the written exami	nation may be	replaced by an oral examination				
			date).	(approx. 20 illillutes) of all orat e	examination in groups	or 2 Carididate	s (approx. 15 illillutes per callui-				
			Language of assessment: German and/or English								
			creditable for bonus								
	Referred to	in LPO I	§ 22 II Nr. 3b								
10-l=AKIT-152-m01	Selected Topics in Internet Technologies										
	ECTS 5	Duratio		Method of grading numeric	al grade	Modul level	graduate				
	Courses		V (2) + Ü (2)								
	Method of	assessment		pprox. 60 to 120 minutes).	.1						
				f announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-							
			date).	(approx. 20 illillutes) of all orat e	:xammation in groups	or 2 carididate	s (approx. 15 illillutes per callul-				
			Language of assessme	ent: German and/or English							
			creditable for bonus								
	Referred to		§ 22 II Nr. 3b								
10-I=AKIS-152-m01			ligent Systems								
	ECTS 5	Duratio		Method of grading numeric	al grade	Modul level	graduate				
	Courses		V (2) + Ü (2)								
	Method of	assessment		pprox. 60 to 120 minutes).	.1						
			If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-								
			date).	(approx. 20 illillutes) of all orat e	:xammation in groups	or 2 carididate	s (approx. 15 illillutes per callui-				
			Language of assessme	Language of assessment: German and/or English							
			creditable for bonus								
	Referred to	in LPO I	§ 22 II Nr. 3b								

10-l=A-	Selected Top	ics in Embe	edded Systems			,						
KES-152-m01	ECTS 5	Duratio	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses		V (2) + Ü (2)			, ,						
	Method of as	sessment		approx. 60 to 120 minute:								
			If announced by the le	ecturer at the beginning o	the course, the writte	n examination may be	replaced by an oral examination					
				of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candilate). anguage of assessment: German and/or English								
			creditable for bonus									
	Referred to in	LPO I	§ 22 II Nr. 3b	§ 22 II Nr. 3b								
10-I=AKL-	Selected Top	ics in Aero	space Engineering									
R-152-mo1	ECTS 5	Duratio	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses	,	V (2) + Ü (2)									
	Method of as	sessment	If announced by the le of one candidate each date).	Language of assessment: German and/or English								
	Referred to in	I DO I	§ 22 II Nr. 3b				_					
10-l=AKH-	Selected Topics in HCI											
Cl-152-m01	ECTS 5 Duration 1 semester Method of grading numerical grade Modul level graduate											
	Courses	Burution	V (2) + Ü (2)	method of glading	namericat grade	Modulitevel	_ Sidduce					
	Method of as	sessment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral exor of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes date). Language of assessment: German and/or English creditable for bonus									
	Referred to in	LPO I	§ 22 II Nr. 3b									
10-l=AKII-152-m01	Selected Top	ics in Com _l	outer Science									
	ECTS 5	Duratio	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses		V (2) + Ü (2)				_					
	Method of as	sessment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus									
1	Referred to in	LDOL	§ 22 II Nr. 3b									

06-HCl=BS-152-	Multimodal U	ser Interfa	aces	,							
mo1	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (2)	+ Ü (2)							
	Method of as	sessment		ntation of project re							
				Language of assessment: German and/or English							
	D. C	1001		creditable for bonus							
	Referred to in		-	§ 22 Nr. 3b							
o6-HCl=Ein- f-152-mo1				puter Interaction	1		1				
1-152-11101	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		` ′	+ Ü (2)							
	Method of as	sessment		ntation of project re		• 1					
				uage of assessment: table for bonus	German and/or Engl	isn					
	Referred to in	I PO I		2 II Nr. 3b							
06-HCl=IS-152-	3D User Inter		3 22	12 II IVI- 3D							
mo1	ECTS 5 Duratio		n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (2)	+ Ü (2)	1 5 5	<u> </u>					
	Method of as	sessment	prese	ntation of project re	sults						
			Langi	Language of assessment: German and/or English							
				creditable for bonus							
	Referred to in			§ 22 II Nr. 3b							
06-HCl=ST-152-	Real-Time Int										
mo1	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (2)	+ Ü (2)							
	Method of as	sessment			rox. 60 to 120 minute						
				Language of assessment: German and/or English							
	Referred to in	1001		creditable for bonus							
06-MK-				l Nr. 3b							
06-MK- MedInf1-152-m01	Computer Sci			l competer	Mothod of aradina	numarical arada	Madullaval	Lundoveroduoto			
		Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		` '	+ Ü (2)		1) 1 : : : /	• • •				
	Method of as	sessment				r b) oral examination (approx. 20 minutes) or (c) term paper (approx. 20 pages)			
				or d) portfolio (approx. 20 pages) Language of assessment: German and/or English							
				creditable for bonus							
<u> </u>				בובעונמטוב וטו אטוועס							

o6-MK-	Compu	ter Scie	nce in Me	dia 2		,						
MedInf2-152-mo1	ECTS	6	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	:S		V (2)	(2) + T(2)							
	Method	Method of assessment			n) written examination (approx. 60 minutes) or b) oral examination (approx. 20 minutes) or c) term paper (approx. 20 pages) or d) portfolio (approx. 20 pages) anguage of assessment: German and/or English creditable for bonus							
10-l=SA-152-m01	Aerosp	ace Ser	minar									
		5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course			S (2)					, -			
	Method	d of ass	essment	Semi	nar paper (approx. 2	o pages)						
10-I-REP-152-m01	Exam T	utorial	for the Ge	rman	Staatsexamen							
	ECTS	4	Duration	1	2 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Course	Courses										
	Method	d of ass	essment	One e	xercise per area cov	vered in the state exa	mination					
	Referre	Referred to in LPO I			Nr. 2 f)							
			-	§ 22 l	22 II Nr. 3b							
10-l=DDB-152-m01					T	1		1				
	ECTS 8 Duratio				1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course				+ Ü (2)			,	_			
	Method	u oi ass	essment	If ann of one date) Langu	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per cadate). Language of assessment: German and/or English creditable for bonus							
	Referre	d to in I	LPO I	§ 22 l	§ 22 II Nr. 3b							
Teaching (10 ECTS	credits)											
Compulsory Course	es (10 EC	CTS cred	lits)									
10-l-DDl1-152-m01	Compu	iter Scie	nce Educ	ation 1	(incl. Practical Cou	rse in the Application	of Computer Science Systems	form an Educa	tional Point of View)			
_	ECTS	6	Duration		2 semester	Method of grading		Modul level	undergraduate			
	Courses			V (2)	+ Ü (2) + P (2)	, ,	<u> </u>					
	Method of assessment				written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). creditable for bonus							
	Referred to in LPO I		§ 49 Nr. 2 § 69 Nr. 2									
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10-l-DDl2-GY-152-	Computer Science Education 2										
mo1	ECTS	4	Duration	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V (2) +	- Ü (2)						
	Method of assessment written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examof one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes pedate). creditable for bonus										
	Referre	d to in L	PO I	§ 69 I	Nr. 2 and § 69 l Nr. 1	ıc: Rechnerarchitektı	ur				

Paper (4 ECTS credits)

Students studying for a teaching degree Gymnasium must complete a practical training in didactics and teaching methodology (studienbegleitendes fachdidaktisches Praktikum) which refers to one of the subjects they selected as vertieft studiertes Fach (subject studied with a focus on the scientific discipline) pursuant to Section 34 Subsection 1 No. 4 LPO I (examination regulations for teaching-degree programmes). The obligatory accompanying tutorial is offered by the respective subject. The ECTS credits obtained are counted in the subject Erziehungswissenschaften pursuant to Section 10 Subsection 3 LASPO (general academic and examination regulations for teaching-degree programms).

10-I-SBFD-GY-152-	Practic	Practical Training in Classroom Teaching in Computer Science Education including Theory (German Gymnasium)										
mo1	ECTS	4	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Course	Courses P (o) + S (2)										
	Method	d of asse		Conte for tea	nts and duration of $_{ m I}$				LPO I (examination regulations of all set tasks as specified by			
	Referre	Referred to in LPO I § 34 I 1 Nr. 4										

Freier Bereich (general as well as subject-specific electives) (0-15 ECTS credits)

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

(Freier Bereich (general as well as subject-specific electives) -- subject specific)

`	(rieler bereicht general as weit as subject-specific electives) subject specific)											
10-I-TUT1-152-m01	Tutor a	utor activity 1										
	ECTS	TTS 2 Duration Method of grading (not) successfully completed Modul level undergraduate										
	Course	S		T (2)	T (2)							
	Method	d of asse	essment									
	Referre	d to in L	PO I	§ 22 II Nr. 2 f)								
		§ 22 II Nr. 3 f)										

10-I-TUT2-152-m01	Tutor activ	rity 2									
	ECTS 2	Durati	on		Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses		T (2)								
	Method of	assessmen	Wrap	-up report on tutorin	g activities (5 to 10 p	ages)					
	Referred to	in LPO I		§ 22 Nr. 2 f) § 22 Nr. 3 f)							
10-l-DS-152-m01	Seminar Co	omputer Sci	ence Ed	ucation							
	ECTS 4	Durati	on	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		S (2)	•			•				
	Method of	assessmen	field	written elaboration (approx. 20 pages) and presentation including discussion (approx. 45 to 60 minutes) on a topic from the field of computer science didactics Assessment offered: Only in the semester in which the course is offered							
	Referred to	in LPO I		3 22 II Nr. 2 f) 3 22 II Nr. 3 f)							
10-I-DV-152-m01				puter Science Education							
	ECTS 4 Duratio			1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses		S (2)								
	Method of	assessmen	talk (approx. 30 minutes) ssment offered: Only	or practical assignm in the semester in w	ent (exercise) with examinatio rhich the course is offered	n talk (approx. 1	15 minutes)			
	Referred to	in LPO I		l Nr. 2 f) l Nr. 2 f)			'				
10-l-DRO-152-m01	Robotics in	n Education	on (practical course)								
	ECTS 4	Durati	on	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses		Ü (2)	•							
	Method of	assessmen				of pupils) with examination talk which the course is offered	(approx. 15 mi	nutes)			
	Referred to	in LPO I	1 -	I Nr. 2 f) I Nr. 3 f)							
10-I-DPR-152-m01	Practical C	ourse on Co	mputer	Science Education			1				
	ECTS 4	Durati	on	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses	,	Ü (2)	,			•				
	Method of	assessmen		practical assignment with examination talk (approx. 15 minutes) Assessment offered: Only in the semester in which the course is offered							
	Referred to in LPO I			§ 22 Nr. 2 f) § 22 Nr. 3 f)							

10-I-DPP-152-m01	Hands-	ands-on Computer Science									
	ECTS	6	Duration	1	2 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Course	S		Ü (2) -	+ S (2)			•			
	Method	d of asse	ssment	practi Asses	cal assignment (prepsended) sment offered: Only	paring and delivering in the semester in w	g a school lab session) with exa hich the course is offered	mination talk (a	approx. 15 minutes)		
	Referred to in LPO I § 22 I				Nr. 2 f) Nr. 3 f)						

Paper (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-152-	Thesis Computer Science (Teaching Degree at the German Gymnasium)									
mo1	ECTS	10	Duration	ı [Method of grading	numerical grade	Modul level	undergraduate	
	Courses				No courses assigned to module					
				Hausarbeit (thesis) pursuant to Section 29 LPO I (examination regulations for teaching-degree programmes) (250 to 300 hours) Language of assessment: German; exceptions pursuant to Section 29 Subsection 4 LPO I (examination regulations for teaching-degree programmes)						
	Referre	d to in L	PO I	§ 29						