

Annex SFB

Studienfachbeschreibung (subject description, SFB) for the subject Computer Science as Unterrichtsfach with the degree "Erste Staatsprüfung für das Lehramt an Realschulen"

Responsible: Institute of Computer Science

Examination regulations version: 2012

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

= lecture

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

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

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

= list of modules

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

Conventions for the 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 method 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:

LASP02009

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

25-Oct-2012 (2012-171)

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	Module title											
	ECTS		Duration	(in semesters)	Method of grading		Module level						
	Courses		To be spe	o be specified in the form X (y) with course type X abbreviated as specified above and number of weekly contact hours y									
	Method of as	ssessm	ent										
	Only after su completion of		ıl if applica	if 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 (60 ECTS cre	dits)								
Compulsory Course	es (60 ECTS cre	edits)								
10-I-ADS-102-m01	Algorithm and	d data stru	ıctures							
	ECTS 10	Duratio	n	1 semester	Method of grading	Method of grading numerical grade		undergraduate		
	Courses		V + Ü	(no information on S	SWS (weekly contact	hours) and course lange	uage available)			
	Method of as	sessment	writte 90 mi	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 prerequ	iisites	Admi: cours		assessment: exerci	ses (type and scope to b	oe announced by the led	cturer at the beginning of the		
	Referred to in	LPO I				k, Algorithmen und Date k, Algorithmen und Date				
10-I-TI-102-m01	Theoretical in	formatics								
	ECTS 10	Duratio		1 semester	Method of grading		Modul level	undergraduate		
	Courses		V + Ü	(no information on S	SWS (weekly contact	hours) and course langu	uage available)			
	Method of as		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 3.							
	other prerequ	isites	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. a) Informatik Theoretische Informatik, Algorithmen und Datenstrukturen § 69 (1) 1. a) Informatik Theoretische Informatik, Algorithmen und Datenstrukturen							
10-I-REP-RS-121-	Review Cours									
mo1	ECTS 5	Duratio	n	2 semester	Method of grading	(not) successfully com	pleted Modul level	undergraduate		
	Courses	•	Ü (no	information on SWS	(weekly contact hou	irs) and course language	e available)			
	Method of as	sessment	completion of assignments (type and expenditure of time to be specified by the lecturer at the beginning of the course)							
10-I-ST-102-m01	Software Technology									
	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses				<u> </u>	hours) and course lange	<u> </u>			
	Method of as		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 prerequ		cours	e).			oe announced by the led	cturer at the beginning of the		
	Referred to in	LPO I			ysteme und Software ysteme und Software	technologie				
LA Realschulen Compute	r Science (2012)					IMU Würzburg • generated	l 24-Aug-2021 • exam. reg. data re	ecord L3 079 - - H 2012 page 3 / 6		

10-I-DB-102-m01	Databases											
	ECTS 5 Duration			1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	!S		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 minutes, groups of 3: 25 minutes) Language of assessment: German, English if agreed upon with the examiner								
					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					systeme und Software systeme und Software						
10-I-PP-102-m01	Practic	al Cours	e in Prog	rammi	ng							
	ECTS	10	Duratio	1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Course	25		P (no information on SWS (weekly contact hours) and course language 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 3.								
	other prerequisites			Admission prerequisite to assessment: exercises (type and scope to be announced by the lecturer at the beginning of the course).								
	Additional Information			Additional information on module duration: 1 to 2 semesters.								
	Referred to in LPO I			§ 49 (1) 1. c) Informatik Praktische Softwareentwicklung § 69 (1) 1. d) Informatik Praktische Softwareentwicklung								
10-I-SWP-102-m01	Practic	al cours	e in softv	vare					_			
	ECTS	10	Duratio	1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses			P (no information on SWS (weekly contact hours) and course language available)								
	Metho	d of asse	essment	comp	completion of project assignments, presentation							
	Referred to in LPO I				§ 49 (1) 1. c) Informatik Praktische Softwareentwicklung § 69 (1) 1. d) Informatik Praktische Softwareentwicklung							

Teaching (12 ECTS	cradita)												
•													
10-l-Dl1-092-m01	Didacti	Didactics of Informatics 1 (inc. Practical Course in the Application of Informatics Systems from a Didactical Point of View)											
	ECTS	ECTS 6 Duration			2 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S		V + Ü	+ P (no information	on SWS (weekly cor	itact hours) and course language	e available)					
	Method	d of asso	essment	written examination (approx. 50 to 60 minutes). If announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups. A 50 to 60 minute written examination is equivalent to a 15 minute oral examination of one candidate each, a 20 minute oral examination in groups of 2 and a 25 minute oral examination in groups of 3.									
	other p	rerequi	sites	Admission prerequisite to assessment: exercises (type and scope to be announced by the lecturer at the beginning of the course).									
	Referre	d to in L	-PO I	§ 49 (1) 2. Informatik Didaktik									
10-l-Dl2R-092-m01	Didactics of Informatics 2 for the "Realschule"												
	ECTS 6 Duratio			1	2 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses			V + Ü + P (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 minutes, groups of 3: 25 minutes)									
	other p	rerequi	sites		Admission prerequisite to assessment: exercises (incl. elaboration and presentation of a topic). Type and scope to be specified by the lecturer at the beginning of the course.								
	Referre	d to in l	PO I	§ 49 (1) 2. Informatik Dida	aktik							

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)

ı	(Heler Bereich (General as weit as subject specific electives) subject specific												
	10-I-DS-092-m01	Semina	Seminar Didactics of Informatics										
		ECTS 4 Duration 1 semester Method of grading numerical grade Modul level undergraduate								undergraduate			
		Courses	S		S (no	S (no information on SWS (weekly contact hours) and course language available)							
		Method	d of asse		written elaboration (approx. 20 to 25 pages) and oral presentation (approx. 60 minutes) with subsequent discussion (approx. 15 minutes) on a topic from the field of computer science didactics								
					Asses	sment offered: usua	lly only in the semes	ter in which the course is offere	d				

10-I-DV-092-m01	Advanced Topics of Didactic of Informatics										
	ECTS	4	Duratio	1	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Course			,	S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment			written elaboration (approx. 20 to 25 pages) and oral presentation (approx. 60 minutes) with subsequent discussion (approx. 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-DP-092-m01	Practic	al Cours	e in Dida	ctics o	f Informatics						
	ECTS	4	Duratio	1	1 semester	Method of grading (not) successfully complete	d Modul level	undergraduate			
	Course	S		P (no	information on SW	S (weekly contact hours) and course language ava	ilable)				
	Method	of asse	essment	completion of project assignments, presentation (type and expenditure of time to be specified by the lecturer at the beginning of the course) Assessment offered: usually only in the semester in which the course is offered							
10-I-DPP-092-m01	Advanc	ed Prac	tical Cou		Didactics of Informa		1				
			Duratio	1	2 semester	Method of grading numerical grade	Modul level	undergraduate			
	Course	S	•	P + S	(no information on	SWS (weekly contact hours) and course language	available)	•			
	Method of assessment			project and implementation thereof: drawing up a project plan (approx. 10 pages) and practical implementation with pupils Assessment offered: usually only in the semester in which the course is offered							
	other prerequisites			Admission prerequisite to assessment: exercises (type and scope to be announced by the lecturer at the beginning of the course).							
site for teaching de	itten Hau gree stu egree Re	dents to ealschul	be admi e may wr	tted to	the Erste Staatspri thesis in one of th	ovisions of Section 29 LPO I (examination regulation Ufung (First State Examination). In accordance with e subjects they selected as Unterrichtsfach (subje rsuant to Section 29 Subsection 1 Sentence 2 LPO	n the provisions of ct studied with a f	f Section 29 LPO I, students study- ocus on the scientific discipline)			
10-I-HA-RS-122-	Thesis	Informa	tics (Rea	lschule	2)						
mo1	ECTS	10	Duratio	1	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Course	s		no courses assigned							
	Method of assessment			written thesis (approx. 250 to 300 hours total) Language of assessment: German, English if agreed upon with the examiner							
	Module comple	ted				ic modules/module components as specified by s	supervisor.				
	Additio	nal Info	rmation	Addit	onal information o	n module duration: 1 to 2 semesters.					