

Annex SFB

Studienfachbeschreibung (subject description, SFB) for the subject Computer Science as a Bachelor's with 1 major with the degree "Bachelor of Science" (180 ECTS credits)

Responsible: Faculty of Mathematics and Computer Science

Responsible: Institute of Computer Science

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

Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not cremodules in this SFB: ditable for bonus.

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

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

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

Examination regulations version: 2017

Examination regulations version: 2017

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

ASP02015

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

09-Aug-2017 (2017-54)

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	ssessme	ent								
	Only after su completion o		l if applica	if applicable							
	Other prereq	uisites	if applica	if applicable							
	Participants and allocation of places		cati- if applica	if applicable							
	Additional information		on if applica	if applicable							
	Referred to in	n LPO I	if applica	if applicable (examination regulations for teaching-degree programmes)							

Compulsory Course	es (115 E	CTS cre	dits)										
Computer Science	(75 ECTS	credits	5)										
10-I-GdP-172-m01	Fundan	nentals	of Progra	ımminş	mming								
	ECTS 5 Duration		n	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Courses Method of assessment				$V(2) + \ddot{U}(2)$								
					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 ex of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes late). Ireditable for bonus								
	Referre			§ 69 l	49 Nr. 1 b) 69 Nr. 1 b)								
10-I-ADS-152-m01	Algorit	hms an	d data stı	ructure	tures								
	ECTS 10 Duratio			1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Courses			V (4)	+ Ü (2)				_				
	Method o			If ann of one date)	written 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). creditable for bonus								
	Referred to in LPO I			§ 49 Nr. 1 a) § 69 Nr. 1 a)									
10-I-ST-152-m01	Softwa	re Tech	nology										
	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S		V (4)	+ Ü (2)								
	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). creditable for bonus								
	Referred to in LPO I			§ 49 Nr. 1 b) § 69 Nr. 1 b)									

10-I-PP-152-m01	Practica	al Cours	e in Prog	rammi	ng	,						
	ECTS	10	Duration	า		Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses	;		P (6)	(6)							
				If ann	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 fone candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candiate).							
	Referred	d to in L	PO I		3 49 Nr. 1 c) 3 69 Nr. 1 d)							
10-I-SWP-152-m01	Practica	al cours	e in softv	vare				,				
	ECTS 10 Duratio			 1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses			P (6)	•	•		•				
	Method of assessment				cal project (Compl 10 minutes per gro		are project in groups (approx.	300 hours per p	erson) and final presentation (ap-			
	Module complet		ssfully	10-l-P	o-l-PP, 10-l-ST							
	other pr	rerequis	sites		dition, the knowled recommended.	lge and skills acquired	l in module 10-I-ADS are requi	red. Prior attend	ance of this module is therefore			
	Referred	d to in L	PO I	§ 69 I	Nr. 1 d)							
10-I-RAL-152-m01	Digital	comput	er systen	15								
	ECTS 10 Duratio				1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			V (4) -								
	Method of assessmen			If ann of one date).	ounced by the lect candidate each (a	urer at the beginning o	of the course, the written exan		replaced by an oral examination s (approx. 15 minutes per candi-			
10-l-lÜ-152-m01	Informa	tion Tra	ansmissio	on								
	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	5		V (4) -	+ Ü (2)							
					written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). creditable for bonus							
	Referred to in LPO I				Nr. 3 b)							

10-I-HWP-152-m01	Practic	al cours	se in hard	ware					'			
	ECTS	10	Duratio	า	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Course	S		P (6)								
	Method	l of ass	essment		ortfolio: completion of approx. 3 to 10 project assignments (approx. 250 hours total) and presentation of results (approx. 10 inutes per project)							
	Referre	d to in I	LPO I	§ 22 l	Nr. 3 b)							
Theoretical Informa	tics (10	ECTS c	redits)									
10-I-TIV-152-m01	Theore	tical Inf	ormatics									
	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		V (4)								
	Method	l of ass	essment	If ann of one date).	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 fone candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candiate).							
	Referred to in LPO I				Nr. 1 a) Nr. 1 a)							
10-I-TIT-172-m01	Tutorial Theoretical Informatics											
	ECTS 5 Duration				1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Course			Ü (2)								
	Method of assessment			a) exercises (consisting in completion of approx. 11 home work exercise sheets, presentation of own solutions in the exercise groups as well as approx. 5 short assessments written in the exercise group) or b) written examination (approx. 180 to 240 minutes) Die Prüfungsart ist vom Prüfling festzulegen								
Mathematics (30 E	CTS cred	lits)										
10-l-LOG-152-m01	Logic fo	or infor	matics									
	ECTS	5	Duratio		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								
	Referre	d to in I	LPO I	§ 22 l	l Nr. 3 b)							

10-M-INF1-152-m01	Mathe	Mathematics 1 for students in Computer Science											
	ECTS	10	Duratio		1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Course	es	,		(4) + Ü (2) Iodule taught in: Ü: German or English								
	Method of assessment			b) ora c) ora Langi	a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) canguage of assessment: German and/or English creditable for bonus								
10-M-INF2-152-	Mathe	matics	2 for stud	ents in	Computer Science								
mo1	ECTS	10	Duratio	1	1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Course	es	·		V (4) + Ü (2) Module taught in: Ü: German or English								
	Method	d of ass	essment	b) ora c) ora Langi	a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus								
10-I-AGT-152-m01	Algorit	hmic G	raph Theo	ry									
	ECTS	5	Duratio	1	1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Course	es.		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									
	Referre	ed to in	LPO I	§ 22	I Nr. 3 b)								

Compulsory Electiv	es (35 E	CTS cre	dits)										
Computer Science	(25 ECTS	credit	s)										
10-l=ICG-152-m01	Interac	tive Co	mputer G	raphics	aphics								
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	l graduate				
	Course	S		V (2)	/ (2) + Ü (2)								
				If ann of on date) Langu credit	nounced by the lecture candidate each (a candidate each (a cuage of assessment cable for bonus	pprox. 20 minutes):	g of the course, the writ or an oral examination glish	in groups of 2 candidate	replaced by an oral examination s (approx. 15 minutes per candi-				
				Focus HCI	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): HCI								
10-I-DB-152-m01	Databa	ses											
	ECTS	5	Duratio		1 semester	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				§ 49 Nr. 1 b) § 69 Nr. 1 b)								
10-I-WBS-152-m01	Knowle	dge-ba	sed Syste	ems									
	ECTS	5	Duratio		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 l	l Nr. 3 b)								

10-I-DM-152-m01	Data Mining	Data Mining										
	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Courses		V (2)	+ Ü (2)	·	•	•					
	Method of a	ssessment		written 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								
	Referred to i	n LPO I	§ 22 l	II Nr. 3 b)								
10-I-APR-172-m01	Advanced Pi	ogramming	5			·						
	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Courses		V (2)	+ Ü (2)								
	Method of a	ssessment	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 fone 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 i	n LPO I	§ 22	II Nr. 3 b)			_					
10-l-KT-152-m01	Computational Complexity											
	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Courses		V (2)	+ Ü (2)		•	•					
	Method of a	ssessment	If anr of on date) Langi	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 o of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 min date). Language of assessment: German and/or English creditable for bonus								
	Referred to i	n LPO I	§ 22 l	II Nr. 3 b)								
10-l-KD-152-m01	Cryptograph	y and Data	Securi	ity								
	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Courses		V (2)	+ Ü (2)								
	Method of a	ssessment	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 i	n LPO I	§ 22	I Nr. 3 b)								

10-l-3D-152-m01	3D Poin	t Cloud	l Processi	ng		,		_					
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses			V (2)	+ Ü (2)			·					
	Method	of ass	essment		written examination (approx. 60 to 120 minutes).								
				of on date) Langu	announced 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								
	Referred	l to in l	PO I	§ 22 l	I Nr. 3 b)								
10-l-BS-152-m01	Operation	ng Sys	tems					,					
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses			V (2)	+ Ü (2)								
				If anr 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								
10-I-RAK-152-m01	Computer Architecture												
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses			V (2)	+ Ü (2)								
	Method of assessment			If anr of on date) Lange	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral exam of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes pe date). Language of assessment: German and/or English creditable for bonus								
	Referred to in LPO I			§ 22 II Nr. 3 b) § 69 I Nr. 1 c): Rechnerarchitektur									
10-I-RK-152-m01			vorks and	Comr	nunication System	ıs							
	ECTS	8	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses			V (4)	+ 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. 3 b)									

10-l-Gl-152-m01	Selecte	ed Basi	ics of Com	puter S	Science							
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	!S	·	V (4)	+ Ü (2)							
	Method	Method of assessment			vritten examination (approx. 60 to 120 minutes). f announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus							
	ect one c	of the m		red an	d must achieve th	e required number of ECTS credits in this minor.						
Mathematics (10 E	CTS cred	lits)										
10-M-DI-	Introdu	uction t	to Discrete	Math	ematics for stude	nts of other subjects						
Maf-152-m01	ECTS	10	Duratio	,	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Courses			V (4)	(4) + Ü (2)							
	Method of assessment			b) ora c) ora Langu	al examination of least to the least of least least one of the least lea	(approx. 90 to 180 minutes, usually chosen) or one candidate each (15 to 30 minutes) or groups (groups of 2, 10 to 15 minutes per candidate) nt: German and/or English						
10-M-NUM1af-152-	Numer	Numerical Mathematics 1 for students of other subjects										
mo1	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	!S		V (4)	+ Ü (2)							
	ethod of assessment a b c L		a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus									
10-M-STO-1af-152-	Stocha	stics 1	for studer	its of o	ther subjects							
mo1	ECTS	10	Duratio	4	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course				+ Ü (2)							
	Method of assessment			a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus								

10-M-ZT-	Introdu	iction I	nto Numb	er The	r Theory for students of other subjects							
Haf-152-mo1	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	S		V (4)	/ (₄) + Ü (₂)							
	Method	d of ass	essment	b) ora c) ora Langu	a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus							
10-M-DGLaf-152-	Ordina	ry Diffe	rential Eq	uation	s for students of otl	her subjects						
mo1	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Courses			V (4)	+ Ü (2)							
	Method of assessment			b) ora c) ora Langu	a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) canguage of assessment: German and/or English creditable for bonus							
10-M-OR-	Operat	ions Re	search fo	r stude	ents of other subjec	ts	'					
Saf-152-m01	ECTS	10	Duratio	า	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	S		V (4)	+ Ü (2)							
	Method of assessment			a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus								
Physics (10 ECTS c	redits)											
11-EFNF-152-m01	Introdu	ıction t	o Physics	for Stu	udents of other Disc	iplines						
	ECTS	7	Duratio	n	2 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	S		V (4)	+ V (3)	·						
	Method	d of ass	essment	writte	en examination (60 t	to 120 minutes)						
	Additional Information		according to § 2 para. 2 sentence 2 APOLmCh in conjunction with No. I 2nd letter d) and No. I 1st letter d) of annex 1 to the APOLmCh and No. 4 of annex 2 to the APOLmCh									

11-PFNF-152-m01	Laboratory Co	urse Phys	ics for	Students of other	Disciplines			-			
	ECTS 3	Duratio		1 semester		(not) successfully completed	d Modul level	undergraduate			
	Courses		P (4)			•	ļ.				
	Method of ass	essment	tes). Each	a) practical assignment with oral test (approx. 15 minutes, during experiments) and b) written examination (approx. 90 minutes). Each experiment comprises preparation, performance and evaluation. Test as well as performance of experiments can each be repeated once.							
	Participants at cation of place		Only a	Only as part of pool of general transferable skills (ASQ): 10 places (lottery)							
	Additional Info	ormation		APOLmCh and No. 4 of annex 2 to the APOLmCh							
Economics (10 ECT:	S credits)										
12-NW-EBWL-152-	Introduction to Business Administration - Minor										
mo1	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V (2) -	V (2) + Ü (2)							
	Method of ass	essment	written examination (approx. 60 minutes)								
	Participants at cation of place		200 places (lottery)								
12-NW-EV-	Introduction to	o Econom	ics - M	inor							
WL-152-m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V (2) -	+ Ü (2)							
	Method of ass	essment	written examination (approx. 60 minutes)								
	Participants at cation of place		max. 200 places. Modules 12-NW-EBWL and 12-NW-EVWL are not open for students of the following subjects: Wirtschaftswissenschaft (Business Management and Economics) Bachelor's (BSc with 180 ECTS credits), Wirtschaftsinformatik (Business Information Systems) Bachelor's (BSc with 180 ECTS credits) and Wirtschaftsmathematik (Mathematics for Economics) Bachelor's (BSc with 180 ECTS credits).								

12-ExtUR-G-152-	Financi	al Accou	ınting								
mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course				+ T (2)						
	Method	d of asse	essment	writte	n examination (ap	prox. 60 minutes)					
	Participants and allo- cation of places			840 places. (1) No restrictions with regard to available places for Bachelor's students of Wirtschaftswissenschaft (Business Management and Economics) (BSc with 180 ECTS credits), Wirtschaftsmathematik (Mathematics for Economics) (BSc with 180 ECTS credits), Wirtschaftsinformatik (Business Information Systems) (BSc with 180 ECTS credits) as well as Bachelor's students with the minor Wirtschaftswissenschaft (Business Management and Economics) (60 ECTS credits). (2) The remaining places will be allocated to students of other subjects. (3) When places are allocated in accordance with (2) and the number of applications exceeds the number of available places, places will be allocated according to the following quotas: a) Quota 1 (50 % of places): total number of ECTS credits already achieved in the respective degree subject; among applicants with the same number of ECTS credits achieved, places will be allocated by lot. b) Quota 2 (25 % of places): number of subject semesters of the respective applicant; among applicants with the same number of subject semesters, places will be allocated by lot. c) Quota 3 (25 % of places): lottery.							
12-IntUR-G-152-	Managerial Accounting										
mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V (2) ·	+ T (2)						
	Method of assessment			written examination (approx. 60 minutes)							
	Participants and allocation of places			(1) No and E dits), the mallocatexcee ces):	conomics) (BSc w Wirtschaftsinform inor Wirtschaftswi ated to students of eds the number of total number of EC TS credits achiever ive applicant; amo	ith 180 ECTS credits), I atik (Business Informa ssenschaft (Business other subjects. (3) Whavailable places, place TS credits already ach d, places will be allocating applicants with the	Nirtschaftsmathematik (Mather ation Systems) (BSc with 180 EC Management and Economics) (nen places are allocated in access will be allocated according to ieved in the respective degree steed by lot. b) Quota 2 (25 % of	matics for Econo TS credits) as w 60 ECTS credits) ordance with (2) the following q subject; among places): number esters, places wi	rell as Bachelor's students with (2). (2) The remaining places will be and the number of applications (100 % of plaapplicants with the same number of subject semesters of the rell be allocated by lot. c) Quota 3		

12-BPL-G-152-m01	Supply, Production and Operations Management. An Introduction												
	ECTS 5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Courses		V (2) +	/ (2) + T (2)									
	Method of asse	essment	written examination (approx. 60 minutes)										
	Participants and cation of places	5	(1) No restrictions with regard to available places for Bachelor's students of Wirtschaftswissenschaft (Business Management and Economics) (BSc with 180 ECTS credits), Wirtschaftsmathematik (Mathematics for Economics) (BSc with 180 ECTS credits), Wirtschaftsinformatik (Business Information Systems) (BSc with 180 ECTS credits) as well as Bachelor's students with the minor Wirtschaftswissenschaft (Business Management and Economics) (60 ECTS credits). (2) The remaining places will be allocated to students of other subjects. (3) When places are allocated in accordance with (2) and the number of applications exceeds the number of available places, places will be allocated according to the following quotas: a) Quota 1 (50 % of places): total number of ECTS credits already achieved in the respective degree subject; among applicants with the same number of ECTS credits achieved, places will be allocated by lot. b) Quota 2 (25 % of places): number of subject semesters of the respective applicant; among applicants with the same number of subject semesters, places will be allocated by lot. c) Quota 3 (25 % of places): lottery. (4) A waiting list will be maintained and places re-allocated by lot as they become available.										
12-I&F-G-152-m01	Investment and	l Finance.	. An Introduction										
	ECTS 5	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Courses		V (2) +	+ T (2)									
	Method of asse	essment	writte	vritten examination (approx. 60 minutes)									
	Participants and cation of places	5	and Eddits), the malloca excee ces): to fect spection	restrictions with re conomics) (BSc wit Wirtschaftsinforma inor Wirtschaftswis ated to students of co ds the number of ar total number of ECT S credits achieved, ive applicant; amor	h 180 ECTS credits), V tik (Business Informa senschaft (Business I other subjects. (3) Wh vailable places, place S credits already ach , places will be alloca ng applicants with the	Virtschaftsmathematik (Mathem tion Systems) (BSc with 180 EC Management and Economics) (Gen places are allocated in accoss will be allocated according to ieved in the respective degree sted by lot. b) Quota 2 (25 % of p	natics for Econo TS credits) as we so ECTS credits, rdance with (2) the following coubject; among blaces): number sters, places wi	rell as Bachelor's students with (2) The remaining places will be and the number of applications quotas: a) Quota 1 (50 % of plaapplicants with the same number of subject semesters of the rell be allocated by lot. c) Quota 3					

12-Ewiinf-G-152-	Introduction to Business Informatics												
mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S		V (2)	(2) + T(2)								
	Method	d of ass	essment	b) wr Lang	a) written examination (approx. 60 minutes) or b) written examination consisting entirely or partly of multiple choice questions (approx. 60 minutes) Language of assessment: German and/or English creditable for bonus								
	Particip cation (of place	es	(1) No and E dits), the m locat ceed list w	840 places. (1) No restrictions with regard to available places for Bachelor's students of Wirtschaftswissenschaft (Business Management and Economics) (BSc with 180 ECTS credits), Wirtschaftsmathematik (Mathematics for Economics) (BSc with 180 ECTS credits), Wirtschaftsinformatik (Business Information Systems) (BSc with 180 ECTS credits) as well as Bachelor's students with the minor Wirtschaftswissenschaft (Business Management and Economics) (60 ECTS credits). (2) Additional places will be allocated to students of other subjects. (3) When places are allocated in accordance with (2) and the number of applications exceeds the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (4) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (5) A waiting list will be maintained and places re-allocated by lot as they become available.								
12-GP-G-152-m01			iness Pro										
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course				$V(2) + \ddot{U}(2)$								
	Method	d of ass	essment	a) written examination (approx. 60 minutes) or b) term paper (approx. 15 pages) or c) term paper (approx. 10 to 15 pages) and presentation (approx. 10 minutes); (weighted 2:1) creditable for bonus									
	Particip cation (15 places. (1) The number of places is not restricted for students of the Bachelor's degree subject Wirtschaftsinformatik (Business Information Systems) (BSc with 180 ECTS credits). (2) Additional places will be allocated to students of other subjects provided there is enough capacity. These additional places will be allocated by lot among all applicants irrespective of their subjects. (3) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (4) A waiting list will be maintained and places re-allocated by lot as they become available.									
12-FRBE-F-152-m01	Forward and Reverse Business Engineering												
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S	,	V (2)	+ Ü (2)			•	,				
	Method	d of ass	essment	a) written examination (approx. 60 minutes) or b) term paper (approx. 15 pages) or c) term paper (approx. 10 to 15 pages) and presentation (approx. 10 minutes); (weighted 2:1) creditable for bonus									
	Participants and allo- cation of places			Bach rentia accor by lo	50 places. Should the number of applications exceed the number of available places, places will be allocated as follows: (1) Bachelor's students of Wirtschaftsinformatik (Business Information Systems) (BSc with 180 ECTS credits) will be given preferential consideration. (2) The remaining places will be allocated to students of other subjects. (3) When places are allocated in accordance with (1) and (2) and the number of applications exceeds the number of available places, places will be allocated by lot among applicants from this group. (4) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (5) A waiting list will be maintained and places re-allocated by lot as they become available.								

Linguistics (10 ECT	S credits)											
o4-DtLABA-BM-	Level One Module German Linguistics											
SW-152-m01	ECTS 5	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		V (2)	(2) + S (2) + T (1)								
	Method of ass	sessment	written examination (approx. 75 minutes)									
	Referred to in	LPO I	§ 43 Nr. 2 b)									
5.1.454.444				3 63 Nr. 2 b)								
04-DtLABA-AM- SW1-152-m01				atical Structures of German								
3W1 132 11101	ECTS 5	Duratio		C (a) . T (a)	Method of grading	numerical grade	Modul level	undergraduate				
	Courses			+ S (2) + T (1)				_				
	Method of ass			n examination (app	rox. 75 minutes)							
	Referred to in	LPOT		Nr. 2 b) Nr. 2 b)								
Biology (10 ECTS c	redits)			·								
07-1A1TI-152-m01	Evolution and the Animal Kingdom											
	ECTS 5	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		V (2)	+ Ü (3)								
	Method of ass	sessment	written examination (approx. 60 minutes) creditable for bonus									
	other prerequi	isites	Admission prerequisite to assessment: exercises. Regular attendance (minimum 80%) and successful completion of exercises (approx. 25 to 30 hours) are prerequisites for admission to assessment.									
	Referred to in	LPO I	§ 41 Nr. 1 (4 ECTS credits) and § 41 Nr. 4 (1 ECTS credits) § 61 Nr. 1 (4 ECTS credits) and § 61 Nr. 4 (1 ECTS credits)									
07-2A2GEN-	Genetics, Neurobiology, Behaviour											
V-152-mo1	ECTS 5 Duratio		า	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		V (3)	V (3)								
	Method of ass	sessment	written examination (approx. 60 to 90 minutes) creditable for bonus									
	other prerequi	isites	Admission prerequisite to assessment: exercises. Regular attendance (minimum 80%) and successful completion of exercises (approx. 25 to 30 hours) are prerequisites for admission to assessment.									
	Referred to in	LPO I	§ 61 Nr. 2 (2 ECTS credits) § 61 Nr. 3 (1 ECTS credits) § 61 Nr. 4 (1 ECTS credits)									
07-M-BST-152-m01	Mathematical	Biology a										
	ECTS 4	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		V (2)	+ Ü (2)			*					
	Method of ass	sessment		n examination (app	rox. 60 minutes)							
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07-3A3OE-	Plant a	and Anir	nal Ecolog	 gy								
KO-152-mo1	ECTS	6	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			V (2) ·	V (2) + Ü (2)							
	Metho	d of ass	essment	written examination (approx. 90 minutes) creditable for bonus								
	Referre	ed to in	LPO I	§ 61 l	§ 61 l Nr. 4							
07-3A3GEM-	Genes	, Molecı	ıles, Tech	nologi	ologies							
T-152-m01	ECTS	6	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	es		V (4)								
	Metho	d of ass	essment		written examination (approx. 90 minutes) creditable for bonus							
Law (10 ECTS credi	ts)											
02-J1-171-m01	Introd	uction to	the Gern	nan Le	an Legal System							
	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	es	,	V (4)	V (4)							
	Metho	d of ass	essment	written examination (approx. 120 minutes)								
	Participants and allo- cation of places			max. 80 places. Students applying after not having successfully completed assessment in the past two semesters will be given preferential consideration. The remaining places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available. Places on all courses of the module with a restricted number of places will be allocated in the same procedure.								
02-G&Hre-G-161-	Commercial and Business Law for Economists											
mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	es		V (3) + Ü (2)								
	Method of assessment			written examination (approx. 120 minutes) Assessment offered: Usually once a year, summer semester								
	Participants and allo- cation of places			There are no restrictions with regard to available places for students of Rechtswissenschaft (Law) as well as Bachelor's students with the minor Privatrecht (Private Law). A total of 20 places will be allocated to students of other subjects. 10 of these will be allocated to students of the Master's degree programme Economics. Should the number of available places exceed the number of applications, the remaining places may be allocated to students of other subjects. Should there be more than 10 applications, the remaining places will be allocated as follows: Students applying after not having successfully completed assessment in past years will be given preferential consideration. The remaining places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.								

Geography (10 ECT	S credits)										
04-Geo-FER-	Introductio	on to Geograp	hical R	emote Sensing							
NE-152-m01	ECTS 5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V (2) +								
					an and/or English						
	Method of	assessment			prox. 45 minutes)	dich					
				Language of assessment: German and/or English creditable for bonus							
	Referred to	in LPO I		66 l Nr. 2							
04-Geo-FER-	Application	ns of Remote	Sensin	g in Geography	,		1				
NA-152-m01	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	<u> </u>	V (2) +					-			
					an and/or English						
	Method of	assessment			prox. 45 minutes)	1: -1.					
				Language of assessment: German and/or English creditable for bonus							
Medicine (10 ECTS	credits)		create	able for bollas							
03-M-MT-152-m01	Practical Course in medical terminology										
	ECTS 5 Duratio			1 semester	Method of grading	(not) successfully completed	Modul level	unknown			
	Courses	2 4.44.0	P (o)			(, careers and complete					
	Method of	assessment	` '	n examination (ap	prox. 60 to 90 minute	es)					
03-M-IM-152-m01											
	ECTS 5 Duratio		1	1 semester	Method of grading	numerical grade	Modul level	unknown			
	Courses		V (o)				•				
	Method of	assessment	oral examination (one candidate each: approx. 15 minutes, or groups of up to 3 candidates: approx. 10 minutes per candidate)								
			Assessment will usually have reference to one of the sub-specialities of internal medicine, e. g. cardiology, pulmonology, nephrology, endocrinology, oncology, gastroenterology, rheumatology, infectious disease.								
			phroto	igy, endocrinolog	y, oncology, gastroem	erology, meumatology, infectio	us disease.				
Key Skills Area (20											
General Key Skills In addition to the m			dents m	nay also take moc	lules offered by JMU a	s part of the pool of general trar	nsferable skills	(ASQ).			
General Key Skills	(subject-spe	ecific)									
10-I-TUT1-152-m01	Tutor activ	ity 1									
	ECTS 2	Duratio	ı		Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses		T (2)								
	Method of	assessment	Wrap-ı	up report on tutor	ing activities (5 to 10	pages)					
	Referred to	in LPO I		Nr. 2 f)							
			§ 22 II	Nr. 3 f)							

10-I-TUT2-152-m01	Tutor a												
	ECTS	2	Duratio	n		Method of grading	(not) successfully completed	Modul level	undergraduate				
	Courses	5		T (2)	T (2)								
	Method of assessment			Wrap	Wrap-up report on tutoring activities (5 to 10 pages)								
	Referre	Referred to in LPO I			I Nr. 2 f) I Nr. 3 f)								
10-I-TUT3-152-m01	Tutor a	ctivity 3			<u>s ····· </u>								
	ECTS 2 Duration					Method of grading	(not) successfully completed	Modul level	undergraduate				
	Courses	S		T (2)		, , ,	•						
	Method	l of asse	essment	Wrap	up report on tutoring	g activities (5 to 10 p	ages)	1					
Subject-specific Ke													
10-I-SEM1-152-m01	Semina	r - Sele	cted Topi	cs in C	omputer Science 1								
	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses	S		S (2)	<u> </u>	<u>'</u>		•	•				
	Method of assessment			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									
	Referred to in LPO I			§ 22 II Nr. 3 b)									
10-I-SEM2-152-	Semina	r - Sele	cted Topi	cs in Computer Science 2									
mo1			Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		·	S (2)	S (2)								
	Method of assessment			Wrap-up report on tutoring activities (5 to 10 pages) Language of assessment: German and/or English									
10-I-PV-152-m01	Project	Presen	tation										
			Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses	S	•	S (5)	S (5)								
	Method of assessment			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 L	PO I	§ 22 II Nr. 3 b)									
Thesis (10 ECTS cre	edits)												
10-l-BA-152-m01	Bachelo	or's The	sis Infor	natics	natics								
	ECTS	10	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses	5	•	No co	urses assigned to m	odule							
	Method	l of asse	essment		elor's thesis (approx uage of assessment:	. 50 to 100 pages) German and/or Engl	ish						
	Additional Information			Time	to complete: 10 wee	ks.							
Bachelor's with 1 major (Computor Co	ioneo (oo4	-)				IMII Wiirzhurg • generated 10-Apr-20	as a ovam rog data r	record 82 070 - - H 2017				