

## **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

Examination regulations version: 2019

Examination regulations version: 2019

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 cre-

modules 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.

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)):

## 26-Jul-2018 (2018-55)

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	fapplicable							
	Other prereq	uisites	if applica	if applicable							
	Participants on of places		cati- if applica	if applicable							
	Additional information		on if applica	if applicable							
	Referred to in	n LPO I	if applica	ble (examination re	gulations for teachin	g-degree programmes)					

Compulsory Course	es (125 E	CTS cre	dits)										
Computer Science	Computer Science (85 ECTS credits)												
10-l-GdP-172-m01	Fundan	nentals	of Progra	mming	g								
	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate				
					/ (2) + Ü (2)								
	Method	If ar of o 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								
	Referre	d to in I	PO I		9   Nr. 1 b) 9   Nr. 1 b)								
10-I-ADS-152-m01	Algorit	hms an	d data str	ucture	S								
	ECTS	10	Duratio	,	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course				+ Ü (2)								
	Method				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								
	Referre	d to in I	-PO I		Nr. 1 a) 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				+ Ü (2)								
				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-191-m01	Practic	al Cour	se in Prog	rammi	ng				Practical Course in Programming												
	ECTS	10	Duratio	1		Method of grading	(not) successfully com	npleted	Modul level	undergraduate											
	Course	S		P (6)		`			`												
	Method	d of ass	essment	if ann	ounced by the lecti	irer at the beginning	of the course, the writte	en exami	nation may be	(approx. 60 to 120 minutes) replaced by an oral examination											
				date).	,																
	other prerequisites			this b	ntended learning outcomes of the following module are required: 10-I-GdP. It is therefore strongly recommended to complete nis before.																
	Referre	d to in I	LPO I		Nr. 1 c) Nr. 1 d)																
10-I-SWP-152-m01	Practic	al cours	se in softv	vare																	
	ECTS	10	Duration	1	1 semester	Method of grading	(not) successfully com	npleted	Modul level	undergraduate											
	Course	S		P (6)		`			,												
	Method	d of ass	essment		ctical project (Completion of a larger software project in groups (approx. 300 hours per person) and final presentation (ap- x. 10 minutes per group)																
	Modules successfully completed			10-I-P	o-l-PP, 10-l-ST																
	other prerequisites				n addition, the knowledge and skills acquired in module 10-I-ADS are required. Prior attendance of this module is therefore ighly recommended.																
	Referre	d to in I	LPO I § 69   Nr. 1 d)																		
10-l-RAL-152-m01	Digital	compu	ter systen	15																	
	ECTS	10	Duratio	1	1 semester	Method of grading	numerical grade		Modul level	undergraduate											
	Course	S		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 of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minuted date).  creditable for bonus						replaced by an oral examination s (approx. 15 minutes per candi-													
10-I-RIÜ-191-m01	Compu	ter Net	works and	Inforn	nation Transmissio	n															
	ECTS	10	Duratio		1 semester	Method of grading	numerical grade		Modul level	undergraduate											
	Course			V (4) + Ü (2)																	
	Method of assessment			If anno of one date). 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 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																
	Referre	d to in I	LPO I	§ 22 II	Nr. 3 b), § 69 I Nr.	1 C)															

10-I-DB-152-m01	Databa	Databases												
	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	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 candidate)									
				Langu	lage of assessment able for bonus									
	Referred to in LPO I			§ 69 I	49   Nr. 1 b) 69   Nr. 1 b)									
10-I-MCS-191-m01		ction ir			outer Interaction									
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Course	S		V (3) ·	+ Ü (1)									
				If ann of one date). Langu credit	e candidate each (a	urer at the beginning	r an oral examination in grou		replaced by an oral examination s (approx. 15 minutes per candi-					
10-I-HWP-152-m01	Practic	al cours	se in hard	ırdware										
	ECTS	10	Duration		1 semester	Method of grading	(not) successfully complete	ed Modul level	undergraduate					
	Course			P (6)										
	Method	d of ass	essment		olio: completion of a es per project)	approx. 3 to 10 projec	ct assignments (approx. 250	hours total) and p	resentation of results (approx. 10					
	Referre	d to in I	LPO I	§ 22 l	l Nr. 3 b)									
Theoretical Informa	atics (10	ECTS c	redits)											
10-I-TIV-152-m01	Theore	tical Inf	formatics											
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Course	S	<u>.</u>	V (4)		'		'						
	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).									
	Referre	d to in I	LPO I		Nr. 1 a) Nr. 1 a)									

10-I-TIT-191-m01	Tutoria	l Theore	etical Info	rmatic	:S				-			
	ECTS	5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Course	S		Ü (2)								
	Method	d of ass	essment						n of own solutions in the exercise			
							s 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	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		V (2) -	+ Ü (2)							
	Method	d of ass	essment	If ann of one date). Langu	rritten 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 examinate If one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per care). If anguage of assessment: German and/or English If a candidate is a cand							
	Referre	d to in l	LPO I	§ 22 l	l Nr. 3 b)				_			
10-M-INF1-152-m01	Mather	natics 1	for stude	idents in Computer Science								
	ECTS	10	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		V (4) - Modu	+ Ü (2) le taught in: Ü: Gerr	nan or English						
	Method	d of ass	essment	b) ora c) ora Langu	l examination of on l examination in gro	e candidate each (15	to 15 minutes per candidate)					
10-M-INF2-152-	Mather	natics 2	for stud	ents in	Computer Science							
mo1	ECTS	10	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		V (4) + Ü (2) Module taught in: Ü: German or English								
	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-I-AGT-152-m01	Algorit	hmic G	raph Theo	ry	-							
		5	Duration		1 semester	Method of grading numerica	l grade	Modul level	undergraduate			
	Course	S		V (2) ·	+ Ü (2)			•	•			
	Method	d of ass	essment	If ann of one date). Langu	ounced by the lede e candidate each	oprox. 60 to 120 minutes). Eturer at the beginning of the cour (approx. 20 minutes) or an oral ex nt: German and/or English						
	Referre	d to in	LPO I	§ 22 l	22 II Nr. 3 b)							
<b>Compulsory Elective</b>	/es (25 E	CTS cre	edits)									
Computer Science	(15 ECTS	credits	s)									
10-I-SEC-191-m01	IT Secu	ırity										
	ECTS	5	Duratio	n	1 semester	Method of grading numerica	l grade	Modul level	undergraduate			
	Course	S	-		+ Ü (2) ıle taught in: Gern	nan and/or English						
	Method	Method of assessment			ounced by the lede e candidate each	oprox. 60 to 120 minutes). Eturer at the beginning of the cour (approx. 20 minutes) or an oral ex nt: German and/or English						
10-l=lCG-152-m01	Interac	tive Co	mputer Gi	aphics	5			,				
	ECTS	5	Duratio	n	1 semester	Method of grading numerica	l grade	Modul level	graduate			
	Course	S		V (2) ·	+ Ü (2)							
	Method	d of 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 candidate).  Language of assessment: German and/or English creditable for bonus							
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): HCI								

10-I-WBS-152-m01	Knowledge-based Systems												
	ECTS	5	Duration	1	1 semester	Method of grading numerical grad	ide N	Modul level	undergraduate				
	Courses	5	•	V (2)	+ Ü (2)		·		•				
	Method	of asse	essment	If ann of one date) Langu	nguage of assessment: German and/or English editable for bonus								
	Referre	d to in L	PO I	§ 22 l	l Nr. 3 b)								
10-l-DM-152-m01	Data M	ining											
	ECTS	5	Duration		1 semester	undergraduate							
		Courses			(2) + Ü (2)								
	Method	OI asse	essment	If ann of one date) Langu	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 office of the candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 milate). In anguage of assessment: German and/or English reditable for bonus								
	Referre			_	§ 22    Nr. 3 b)								
10-I-APR-172-m01		ed Prog	ramming										
	ECTS Courses	5	Duration		1 semester   Method of grading   numerical grade   Modul level   undergraduate   V(2) + Ü(2)								
	Method	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 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	PO I	§ 22 l	l Nr. 3 b)								

10-l-KT-191-m01	Compu	tationa	l Complex	rity								
	ECTS	5	Duratio	n	1 semester	Method of grading   numerical grade	Modul level	undergraduate				
	Course	S		V (2) ·	+ Ü (2)							
	Method	d of ass	essment	If ann of one date). Langu Asses	ounced by the lectue candidate each (a Jage of assessment	orox. 60 to 120 minutes).  For are the beginning of the course, the written exant pprox. 20 minutes) or an oral examination in group.  German and/or English  German examination in the course is offered and in the course.	s of 2 candidate	s (approx. 15 minutes per candi-				
	Referre	d to in I	LPO I	§ 22 l	l Nr. 3 b)							
10-I-KD-191-m01		graphy and Data Security										
	ECTS	5	Duratio									
	Course		_		(2) + Ü (2)							
				If ann of one date). Langu Asses	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 of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per cate). anguage of assessment: German and/or English ssessment offered: In the semester in which the course is offered and in the subsequent semester reditable for bonus							
	Referre	d to in I	LPO I	§ 22 l	§ 22 II Nr. 3 b)							
10-l-3D-152-m01	_		l Processi									
	ECTS	5	Duration		1 semester	Method of grading   numerical grade	Modul level	undergraduate				
ļ	Course				+ 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 I	LPO I	§ 22 II Nr. 3 b)								

10-I-BS-191-m01	Operatin	g Systems					'							
	ECTS 5	Dura	ion	1 semester	Method of grading	numerical grade	Modul level	undergraduate						
	Courses	,		+ Ü (2) ule taught in: English	h									
	Method o	of assessme	If an of or date Lang	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 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										
10-I-RAK-152-m01	Compute	Computer Architecture												
	ECTS 5	Dura	ion	1 semester	Method of grading	numerical grade	Modul level	undergraduate						
	Courses	,	V (2)	) + Ü (2)										
	Method o	of assessme	If an of or date Lang	itten 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 examinat one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per car te). nguage of assessment: German and/or English editable for bonus										
	Referred	to in LPO I		§ 22 II Nr. 3 b) § 69 I Nr. 1 c): Rechnerarchitektur										
10-I-SKS-191-m01			Modern	Communication Sys	tems									
	ECTS 8	Dura		1 semester	Method of grading	numerical grade	Modul level	undergraduate						
	Courses		_	+ Ü (2)										
	Method o	of assessme	If an of or date Lang	nounced by the lecture candidate each (a ).		of the course, the writter an oral examination in		replaced by an oral examination s (approx. 15 minutes per candi-						
10-l-Gl-152-m01	Selected	Basics of Co	mputer	Science			,							
	ECTS 5	Dura	ion	1 semester	Method of grading	numerical grade	Modul level	undergraduate						
	Courses		V (4)	+ Ü (2)										
	Method o	of assessme	If an of or 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 examinat 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										

subsidiary subject											
	ct one of	f the mi	nors offe	red and	d must achieve the r	equired number of E	CTS credits in this minor.				
Mathematics											
10-M-DI-	Introdu	ction to	Discrete	Mathe	ematics for students	of other subjects					
Maf-152-m01	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses	5			+ Ü (2)						
	Method	of asse	essment	b) ora c) ora Langu	vritten examination (approx. 90 to 180 minutes, usually chosen) or						
10-M-NUM1af-152-	Numeri	cal Mat	hematics	1 for s	tudents of other sul	bjects					
mo1	ECTS	10	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses	5		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) Language of assessment: German and/or English creditable for bonus						
10-M-STO-1af-152-	Stochastics 1 for students of other subjects										
mo1	ECTS	10	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			` ''	+ Ü (2)						
	Method	of asse	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-ZT-	Introdu	ction In	to Numb	er The	ory for students of o	ther subjects					
Haf-152-mo1	ECTS	10	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses	5		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 creditable for bonus							

10-M-DGLaf-152-	Ordina	ry Diffe	rential Eq	uation	s for students of o	ther subjects							
mo1	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S		V (4)	+ Ü (2)	•		*					
	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-M-OR-	Operat	ions Re	search fo	r stude	ents of other subje	cts							
Saf-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S		V (4)	+ Ü (2)								
	Method	d of ass	essment	b) ora c) ora Langu Asses	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													
11-EFNF-152-m01	Introduction to Physics for Students of other Disciplines												
	ECTS 7 Duratio				2 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S		V (4)	V (4) + V (3)								
	Method	d of ass			written examination (60 to 120 minutes)								
	Additio	nal Info	ormation			sentence 2 APOLmCh Innex 2 to the APOLm(		letter d) and No.	I 1st letter d) of annex 1 to the				
11-PFNF-152-m01	Labora	tory Co	urse Phys	ics for	Students of other	Disciplines							
	ECTS	3	Duratio	n	1 semester	Method of grading	(not) successfully completed	d Modul level	undergraduate				
	Course	S		P (4)				,					
	Method of assessment			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 and allo- cation of places			Only as part of pool of general transferable skills (ASQ): 10 places (lottery)									
	Additional Information					sentence 2 APOLmCh innex 2 to the APOLm(		letter d) and No.	I 1st letter d) of annex 1 to the				

Economics											
12-NW-EBWL-152-	Introduction	to Busines	s Admi	nistration - Minor							
mo1	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	,	V (2) -	+ Ü (2)							
	Method of as	sessment	writte	n examination (appr	ox. 60 minutes)						
	Participants a cation of place		200 p	200 places (lottery)							
12-NW-EV-	Introduction	to Econom	ics - Mi	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 as	sessment	writte	n examination (appr	ox. 60 minutes)						
	Participants a cation of place	ces	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-	Financial Acc	ounting	g								
mo1	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V (2) +	+ T (2)							
	Method of as	sessment	writte	n examination (appr	ox. 60 minutes)						
	Participants a		and Edits), the malloca excee ces): to fect spection	restrictions with reg conomics) (BSc with Wirtschaftsinformati inor Wirtschaftswiss ited to students of or ds the number of av total number of ECTS S credits achieved,	180 ECTS credits), V k (Business Informa enschaft (Business I ther subjects. (3) Wh ailable places, place credits already ach places will be alloca	Virtschaftsmathematik (Mathe tion Systems) (BSc with 180 E Management and Economics) en places are allocated in acces will be allocated according the teyed in the respective degree ted by lot. b) Quota 2 (25 % of	matics for Econo CTS credits) as w (60 ECTS credits) ordance with (2) o the following of subject; among places): number	nschaft (Business Management mics) (BSc with 180 ECTS creell as Bachelor's students with (2) The remaining places will be and the number of applications uotas: a) Quota 1 (50 % of plaapplicants with the same number of subject semesters of the rell be allocated by lot. c) Quota 3			

12-IntUR-G-152-	Managerial Accounting												
mo1	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S		V (2) ·	+ T (2)								
	Method	d of ass	essment	writte	n examination (ap	prox. 60 minutes)							
		oants ar of place		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. (4) A waiting list will be maintained and places re-allocated by lot as they become available.									
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				
	Course	S		V (2) ·	+ T (2)								
	Method of assessment			written examination (approx. 60 minutes)									
		oants ar of place		(1) No and E dits), the mallocatexcee ces):	conomics) (BSc w Wirtschaftsinform inor Wirtschaftsw ated to students o eds the number of total number of EG TS credits achieve ive applicant; am	ith 180 ECTS credits), Natik (Business Informalissenschaft (Business fother subjects. (3) Whavailable places, placeTS credits already ached, places will be allocating applicants with the	Wirtschaftsmathematik (Mathe ation Systems) (BSc with 180 Ed Management and Economics) nen places are allocated in acces will be allocated according the tieved in the respective degree ated by lot. b) Quota 2 (25 % of	matics for Econo CTS credits) as w (60 ECTS credits) ordance with (2) to the following c 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-I&F-G-152-m01	Investment and Finance. An Introduction											
	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Courses	5		V (2) +	+ T (2)							
	Method	of asse	ssment	writte	n examination (a	pprox. 60 minutes)						
	Particip cation o			(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-Ewiinf-G-152-	Introduction to Business Informatics											
mo1	ECTS	5	Duration	)	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Courses	5		V (2) +	+ T (2)							
	Method of assessment			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 c		<b>;</b>	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	Integrated Business Processes													
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Course	!S		V (2) -	V (2) + Ü (2)									
	Metho	d of ass	essment			(approx. 60 minutes) o	or							
				c) terr	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									
		pants ar of place		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	Forwar	rward and Reverse Business Engineering												
	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Course	25		V (2) -	+ Ü (2)			Y						
	Metho	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 allocation of places				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														
o4-DtLABA-BM-	Level C	One Mod	dule Germ	an Ling	guistics									
SW-152-m01	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Course	25		V (2) + S (2) + T (1)										
	Method of assessment			written examination (approx. 75 minutes)										
	Referred to in LPO I			§ 43   Nr. 2 b) § 63   Nr. 2 b)										
o4-DtLABA-AM-	Level T	wo Mod	lule Gram	matical Structures of German										
SW1-152-m01	ECTS	5	Duration	1		Method of grading	numerical grade	Modul level	undergraduate					
	Course	es		V (1) +	· S (2) + T (1)									
	Metho	d of ass	essment	writte	n examination (ap	prox. 75 minutes)								
	Referred to in LPO I			§ 43   Nr. 2 b) § 63   Nr. 2 b)										

Biology												
07-1A1TI-152-m01	Evolution and the Animal Kingdom											
	ECTS	5	Duration	ı	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Courses			V (2)	+ Ü (3)	·	•	•				
	Method	of asse	essment	written examination (approx. 60 minutes) creditable for bonus								
	other pro	erequis	sites	ses (a	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 L	PO I	§ 41   § 61	§ 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	s, Neur	obiology,	Beha	viour		,					
V-152-m01	ECTS	5	Duration	ı	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Courses			V (3)			<u>`</u>					
	Method	of asse	essment	written examination (approx. 60 to 90 minutes) creditable for bonus								
	other pro	erequis	sites	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 L		§ 61   Nr. 2 (2 ECTS credits) § 61   Nr. 3 (1 ECTS credits) § 61   Nr. 4 (1 ECTS credits)								
07-M-BST-152-m01	Mathem	Mathematical Biology and Biostatistics										
	ECTS	4	Duration	ı	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Courses		-	V (2)	+ Ü (2)	•						
	Method	of asse	essment	written examination (approx. 60 minutes) creditable for bonus								
07-3A3OE-	Plant an	d Anim	al Ecolog	sy			,					
KO-152-mo1	ECTS	6	Duration	1	1 semester	Method of grading   numerical grade	Modul level	undergraduate				
	Courses		,	V (2) + Ü (2)								
	Method	of asse	essment	written examination (approx. 90 minutes) creditable for bonus								
	Referred to in LPO I			§ 61   Nr. 4								
07-3A3GEM-	Genes, I	Molecu	les, Tech									
T-152-m01	ECTS	6	Duration	1	1 semester	Method of grading   numerical grade	Modul level	undergraduate				
	Courses			V (4)								
	Method	of asse	essment		en examination (applate)	orox. 90 minutes)						

Law											
02-J1-171-m01	Introdu	ction to	the Gern	nan Le	gal System						
	ECTS	5	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses	S		V (4)							
	Method	of ass	essment	writte	en examination (ap	orox. 120 minutes)					
	Particip cation o			ven p locat	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-	Comme	rcial ar	d Busine	ss Lav	for Economists	,					
mo1	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses	S	•	V (3)	+ Ü (2)	•	•	•			
	Method	d of ass	essment		en examination (appssered: Usi	orox. 120 minutes) ually once a year, sum	ımer semester				
	Particip cation o			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											
04-Geo-FER-	Introduction to Geographical Remote Sensing										
NE-152-m01	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			V (2) + T (2) Module taught in: German and/or English							
	Method	of ass	essment	written examination (approx. 45 minutes) Language of assessment: German and/or English creditable for bonus							
	Referre	d to in l	PO I	§ 66   Nr. 2							
o4-Geo-FER-	Applica	tions o	f Remote	Sensing in Geography							
NA-152-m01	ECTS				1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses	S	<u>,                                      </u>	V (2) + T (2) Module taught in: German and/or English							
	Method	l of ass	essment	written examination (approx. 45 minutes) Language of assessment: German and/or English creditable for bonus							

Medicine													
03-M-MT-152-m01	Practic	al Cours	se in med	ical te	al terminology								
	ECTS	5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	unknown				
	Course	S		P (o)									
	Method	d of asse	essment	writte	n examination (app	rox. 60 to 90 minutes	5)						
03-M-IM-152-m01	Internal Medicine												
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	unknown				
	Course	_		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.									
Key Skills Area (20	ECTS cr	edits)											
<b>General Key Skills</b> In addition to the m				dents r	may also take modul	les offered by JMU as	part of the pool of general tran	ısferable skills (	(ASQ).				
<b>General Key Skills</b>	(subject	-specifi	c)										
10-I-TUT1-152-m01	Tutor a	Tutor activity 1											
	ECTS	2	Duratio			Method of grading	(not) successfully completed	Modul level	undergraduate				
	Course	S		T (2)									
	Method	d of asse	essment	Wrap-up report on tutoring activities (5 to 10 pages)									
	Referre	Referred to in LPO I		§ 22    Nr. 2 f) § 22    Nr. 3 f)									
10-I-TUT2-152-m01	Tutor a	ctivity 2	2										
	ECTS	2	Duratio	n		Method of grading	(not) successfully completed	Modul level	undergraduate				
	Courses			T (2)									
	Method of assessment				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-I-TUT3-152-m01	Tutor a	ctivity 3	3										
	ECTS	2	Duratio	n		Method of grading	(not) successfully completed	Modul level	undergraduate				
	Course	S		T (2)									
	Method	d of asse	essment	Wrap	up report on tutorin	g activities (5 to 10 p	ages)						

Subject-specific Ke	y Skills	(15 ECT	S credits)							
10-I-SEM1-152-m01	Semina	ar - Sele	cted Topi	ics in C	omputer Science 1					
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Course	S		S (2)						
	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						
	Referre	d to in l	PO I	§ 22 l	Nr. 3 b)					
10-I-SEM2-152-	Semina	ar - Sele	cted Topi	cs in C	omputer Science 2					
mo1	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Course	S		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 Presentation									
	ECTS 5 Duratio			n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses			S (5)						
	Method	d of ass	essment	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						
	Referred to in LPO I		§ 22 II Nr. 3 b)							
Thesis (10 ECTS cre	edits)									
10-l-BA-152-m01	Bachel	or's The	sis Infori	natics						
	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Course	S		No courses assigned to module						
	Method	d of ass	essment	Bache Langu	Bachelor's thesis (approx. 50 to 100 pages) Language of assessment: German and/or English					
	Additio	nal Info	rmation	Time 1	o complete: 10 wee	ks.				