

Annex SFB

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

Responsible: Institute of Mathematics Examination regulations version: 2007 Abbreviations used: Course types: $\mathbf{E} = \text{field trip}$, $\mathbf{K} = \text{colloquium}$, $\mathbf{O} = \text{conversatorium}$, $\mathbf{P} = \text{placement/lab course}$, $\mathbf{R} = \text{project}$, $\mathbf{S} = \text{seminar}$, $\mathbf{T} = \text{tutorial}$, $\mathbf{\ddot{U}} = \text{exercise}$, \mathbf{V} = lecture Term: **SS** = summer semester, **WS** = winter semester Methods of grading: NUM = numerical grade, B/NB = (not) successfully completed Regulations: (L)ASPO = general academic and examination regulations (for teaching-degree programmes), FSB = subject-specific provisions, SFB = list of modules Other: A =thesis, LV =course(s), PL =assessment(s), TN =participants, VL =prerequisite(s) Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not cre-Conventions for the modules in this SFB: ditable for bonus. Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the me-Information on 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 assessment procedures: 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:

ASP02007

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

09-Dec-2008 (2008-31)

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

Every module will be described using the following form:

Abbreviation	Module title										
	ECTS		Duration	(in semesters)	Method of grading		Module level				
	Courses		To be sp	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	ssessme	ent								
	Only after su completion of		l if applica	applicable							
	Other prereq	uisites	if applica	if applicable							
	Participants on of places		ocati- if applica	ble							
	Additional in	formatio	on if applica	ıble							
	Referred to in	n LPO I	if applica	ble (examination re	gulations for teachin	g-degree programmes)					

Compulsory Cours	Analys									
mo1	ECTS	18	Duration	า	2 semester	Method of grading	numerical grade		Modul level	undergraduate
	Course	S		•	10-M-ANA-1-072: 10-M-ANA-2-072:	V + Ü (no information V + Ü (no information	s. Information on cours on SWS (weekly conta on SWS (weekly conta SWS (weekly contact h	ict hours) act hours)	and course lan and course lan	guage available)
	Metho	d of ass	essment							s as specified below. Unless all individual assessments.
				Asses	8 ECTS, Method o a) written examin 20 minutes) or c) Language of asse Other prerequisite sment in module o 8 ECTS, Method o a) written examin 20 minutes) or c) Language of asse Other prerequisite ANA-1 is recomment sment in module o 2 ECTS, Method of oral examination Language of asse Only after succes	of grading: (not) succe ation (approx. 90 mir oral examination in gr ssment: German, Eng es: Modules 10-M-VKA component 10-M-ANA- of grading: (not) succe ation (approx. 90 mir oral examination in gr ssment: German, Eng es: Modules 10-M-VK ended for module com component 10-M-ANA- of grading: numerical gr of one candidate each ssment: German, Eng sful completion of mo	nutes; usually chosen) roups (groups of 2, ap lish if agreed upon wit A and 10-M-PPM are re 2-072: Analysis 2 Ana ssfully completed nutes; usually chosen) roups (groups of 2, ap lish if agreed upon wit M and 10-M-PPM are uponent 10-M-ANA-2. P-072: Examination in grade (approx. 30 minutes) lish if agreed upon wit	or b) oral prox. 30 m th the exan commence llysis 2 or b) oral prox. 30 m th the exan recomme a Analysis th the exan M-ANA-1 o	ninutes) miner ded. l examination c ninutes) miner nded; in additi miner pr 10-M-ANL-1 0	f one candidate each (approx. f one candidate each (approx. on, module component 10-M-
	other n	rerequi	sites	By wa		ditional prerequisites				

10-M-LNA-072-	Linear	Algebr	a									
m01	ECTS	18	Duratio	n	2 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	25		•	 is module comprises 3 module components. Information on courses will be listed separately for each module component. 10-M-LNA-1-072: V + Ü (no information on SWS (weekly contact hours) and course language available) 10-M-LNA-2-072: V + Ü (no information on SWS (weekly contact hours) and course language available) 10-M-LNA-P-072: M (no information on SWS (weekly contact hours) and course language available) 							
	Metho	d of ass	sessment	stated Asses	d otherwise, success sement in module co 8 ECTS, Method of a) written examina 20 minutes) or c) c Language of asses Other prerequisite sement in module co 8 ECTS, Method of a) written examina 20 minutes) or c) c Language of asses	sful completion of the omponent 10-M-LNA- grading: (not) succession (approx. 90 min oral examination in gr sment: German, Engl s: Module 10-M-VKM omponent 10-M-LNA- grading: (not) succession (approx. 90 min oral examination in gr sment: German, Engl	utes; usually chosen) or b) ora oups (groups of 2, approx. 30 i lish if agreed upon with the exa is recommended. 2-072: Linear Algebra 2 Linear ssfully completed utes; usually chosen) or b) ora oups (groups of 2, approx. 30 i lish if agreed upon with the exa	ul completion of Algebra 1 al examination of minutes) aminer Algebra 2 al examination of minutes) aminer				
					2 ECTS, Method of oral examination of Language of asses Only after success	omponent 1o-M-LNA- grading: numerical g of one candidate each sment: German, Engl	n (approx. 30 minutes) lish if agreed upon with the exa dule components: 10-M-LNA-1 (aminer				
	other p	orerequ	isites	By wa	· · ·		are listed in the section on asso	essments.				
10-M-VAN-072-	Advand			. <u>·</u>								
mo1	ECTS 7 Duratio			n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	es		V + Ü	(no information on	SWS (weekly contact	hours) and course language av	vailable)				
	Metho	Method of assessment			a) written examination (approx. 90 minutes; usually chosen) or b) oral examination of one candidate each (approx. 20 minu- tes) or c) oral examination in groups (groups of 2, approx. 30 minutes)							

10-M-AGZ-072-	Algebr	a, Geor	metry and N	Number Theory								
m01	ECTS	22	Duration	3 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	25		 This module has 4 components; information on courses listed separately for each component. 10-M-AGZ-1-072: V + Ü (no information on language and number of weekly contact hours available) 10-M-AGZ-2-072: V + Ü + V + Ü (no information on language and number of weekly contact hours available) 10-M-AGZ-3-072: V + Ü (no information on language and number of weekly contact hours available) 10-M-AGZ-3-072: V + Ü (no information on language and number of weekly contact hours available) 10-M-AGZ-9-072: M (no information on language and number of weekly contact hours available) 								
	Metho	d of ass		This module has the follo sessment components to Assessment in module c	p pass the module as a	whole.		must pass all of these as-				
				 7 ECTS credits, pa a) written examin. 20 minutes) or c) Language of asses Additional prereq Assessment in module c 8 ECTS credits, pa a) written examin. 20 minutes) or c) Language of asses Additional prereq Assessment in module c 5 ECTS credits, pa a) written examin. 	ss / fail ation (approx. 90 minu oral examination in gro ssment: German; Engli uisites: Module 10-M-L omponent 10-M-AGZ-2 uss / fail ation (approx. 90 minu oral examination in gro ssment: German; Engli uisites: Module 10-M-L omponent 10-M-AGZ-3 ss / fail ation (approx. 90 minu	ites, usually chosen) or l pups of 2 candidates (app sh if agreed upon with ex NA recommended. - 072: Einführung in die (ttes, usually chosen) or l pups of 2 candidates (app sh if agreed upon with ex NA recommended. - 072: Elementare Zahlen ttes, usually chosen) or l	b) oral examination o prox. 30 minutes) xaminer(s) Geometrie (Introduction b) oral examination o prox. 30 minutes) xaminer(s) ntheorie (Elementary I b) oral examination o	f one candidate each (approx. on to Geometry) f one candidate each (approx.				
				20 minutes) or c) Language of asses Additional prereq Assessment in module c Geometry and Number T 2 ECTS credits, nu oral examination Language of asses Only after success AGZ-1, 10-M-AGZ-2	oral examination in gro ssment: German; Engli uisites: Module 10-M-L omponent 10-M-AGZ-F heory) merical grading of one candidate each ssment: German; Engli sful completion of mod	pups of 2 candidates (app sh if agreed upon with ex NA recommended. -o72: Prüfung Algebra, G (approx. 30 minutes) sh if agreed upon with ex lule components: Two ou	prox. 30 minutes) xaminer(s) Geometrie und Zahlen xaminer(s)	theorie (Assessment Algebra, ee module components: 10-M-				
	other p	prereau	isites	By way of exception, add	litional prerequisites a	re listed in the section or	n assessments.	-				

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10-M-DFT-072-m01	Ordina	ry Diffe	rential Eq	uation	s and Complex Ana	lysis				
	ECTS	14	Duratio	n	2 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Course	S			10-M-DFT-1-072: V 10-M-DFT-2-072: V	+ Ü (no information of + Ü (no information of	s. Information on courses will b on SWS (weekly contact hours) on SWS (weekly contact hours) SWS (weekly contact hours) an	and course lang and course lang	guage available)	
	Method	l of ass	essment				essments in the individual mo e module will require successfi			
				 Assessment in module component 10-M-DFT-1-072: Ordinary Differential Equations Ordinary Differential Equations 5 ECTS, Method of grading: (not) successfully completed a) written examination (approx. 90 minutes; usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English if agreed upon with the examiner Assessment in module component 10-M-DFT-2-072: Introduction to Complex Analysis Introduction to Complex Analysis 7 ECTS, Method of grading: (not) successfully completed a) written examination (approx. 90 minutes; usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English if agreed upon with the examiner Assessment in module component 10-M-DFT-2-072: Examination or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English if agreed upon with the examiner Assessment in module component 10-M-DFT-P-072: Examination in Ordinary Differential Equations and Complex Analysis 2 ECTS, Method of grading: numerical grade oral examination of one candidate each (approx. 30 minutes) Language of assessment: German, English if agreed upon with the examiner 						
10-M-NM1-072-	Numeri	ical Ma	thematics	1						
m01	ECTS	8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Course	S		V + Ü	(no information on	SWS (weekly contact	hours) and course language av	vailable)	·	
	Method of assessment					o minutes; usually cl ups of 2, 30 minutes)		of one candidate	each (20 minutes) or c) oral ex-	
10-M-ST1-072-m01	Stocha	stics 1								
	ECTS	8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Course	S		V + Ü	(no information on	SWS (weekly contact	hours) and course language av	vailable)		
				a) written examination (90 minutes; usually chosen) or b) oral examination of one candidate each (20 minutes) or c) oral ex- amination in groups (groups of 2, 30 minutes)						

Compulsory Election	ves (55 E	CTS cre	dits)									
Mathematics 1 (5 I	ECTS crea	lits)										
10-M-NM2-072-	Numeri	ical Mat	hematics	2	2							
m01	ECTS	5	Duratio	n	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	d of ass	essment		itten examination os of 2 candidates		examination of one	candidate each (20	minut	es) or c) oral examination in		
10-M-ST2-072-mo1	Stocha	stics 2										
	ECTS	5	Duration		1 semester	Method of grading	•	Modul	level	undergraduate		
	Courses			V + Ü	(no information o	n SWS (weekly contact	hours) and course l	anguage available)				
	Method	d of ass	essment			(approx. 90 minutes; u on in groups (groups c			one ca	andidate each (approx. 20 minu-		
Mathematics 2 (5	ECTS cree	dits)										
10-M-EDM-072-	Introdu	iction to	Discrete	Math	ematics							
m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul	level	undergraduate		
	Course	S		V + Ü	+ Ü (no information on SWS (weekly contact hours) and course language available)							
	Methoo	Method of assessment			ination of one can		o minutes) or an ora	al examination in gro		tion can be replaced by an oral groups of 2, approx. 30 minutes)		
	other p	rerequi	sites	tive d on to the le sessr	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.							
	Referre	d to in l	PO I	§73 (§ 73 (1) 2. Mathematik Lineare Algebra, Algebra und Elemente der Zahlentheorie							
10-M-FAN-072-mo	Introdu	iction to	Functior	al Ana	alysis							
	ECTS	5	Duration		1 semester	Method of grading		Modul	level	undergraduate		
	Course	-				n SWS (weekly contact						
	Methoo	d of ass	essment	exam	written examination (approx. 90 minutes); if announced by the lecturer, the written examination can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English if agreed upon with the examiner							
		rerequi		tive d on to the le sessr ficatio	letails at the begin assessment. If stu ecturer will put the nent in the current on for admission t	ning of the course. Reg idents have obtained t ir registration for asses or in the subsequent o assessment anew.	gistration for the cou he qualification for a sment into effect. S	rse will be consider admission to assess tudents who meet a	ed a do ment o Il prere	nform students about the respec- eclaration of will to seek admissi- over the course of the semester, equisites will be admitted to as- ents will have to obtain the quali-		
	Referre	d to in l	PO I	§73	(1) 1. Mathematik A	nalysis						
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10-M-ORS-072-	Operatio	ons Res	search									
m01	ECTS	5	Duratior	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			V + Ü	(no information on	SWS (weekly contact	hours) and course language	available)	_			
	Method	of asse	essment	exami	written examination (approx. 90 minutes); if announced by the lecturer, the written examination can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English if agreed upon with the examiner							
	other pr	erequis	ites	tive de on to the le sessm	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.							
	Referred	l to in L	PO I	§ 73 (:	ı) 5. Mathematik Ar	ngewandte Mathemat	ik					
10-M-NLD-072-	Non-Lin	ear Dyr	amics									
m01	ECTS	5	Duratior	I	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			V + Ü	(no information on	SWS (weekly contact	hours) and course language	available)				
	Method	of asse	essment	exami	written examination (approx. 90 minutes); if announced by the lecturer, the written examination can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English if agreed upon with the examiner							
				tive de on to the le sessm	etails at the beginn assessment. If stuc cturer will put their tent in the current o	ing of the course. Reg lents have obtained th registration for asses	sistration for the course will b he qualification for admission sment into effect. Students w	e considered a de n to assessment c vho meet all prere	form students about the respec- eclaration of will to seek admissi- over the course of the semester, equisites will be admitted to as- ents will have to obtain the quali-			
	Referred to in LPO I			§ 73 (:	ı) 1. Mathematik Ar	nalysis						
Mathematics 3 (5	ECTS cred	its)										
10-M-RCN-072-	Reading	Cours	e Numerio	al Mat	thematics							
mo1	ECTS	5	Duratior	۱	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		·	A (no	information on SWS	S (weekly contact hou	irs) and course language avai	ilable)	-			
	Method	ofasse	essment	a) talk (approx. 30 minutes) or b) written elaboration (approx. 5 to 10 pages)								
10-M-RCS-072-	Reading	Cours	e Stochas	stics								
m01	ECTS	5	Duratior	I	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			A (no	information on SWS	S (weekly contact hou	irs) and course language avai	ilable)	<u>r</u>			
	Method	ofasse	essment	a) talk	(approx. 30 minut	es) or b) written elabo	oration (approx. 5 to 10 pages	;)				
10-M-RCD-072-	Reading	Cours	e Discrete	e Math	ematics							
m01	ECTS	5	Duratior	ı	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			A (no	A (no information on SWS (weekly contact hours) and course language available)							
	Method	Method of assessment a) talk (approx. 30 minutes) or b) written elaboration (approx. 5 to 10 pages)										
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10-M-RCF-072-m01	Readin	eading Course Functional Analysis										
	ECTS	5	Duratior	า	1 semester	Method of grading numerical grad	le	Modul level	undergraduate			
	Course	S		A (no	information on SWS	(weekly contact hours) and course l	anguage availa	ble)				
	Method of assessment a) talk (approx. 30 minutes) or b) written elaboration (approx. 5 to 10 pages)											
10-M-RCO-072-	Reading Course Operations Research											
m01	ECTS	5	Duratior		1 semester	Method of grading numerical grad		Modul level	undergraduate			
	Course	-				(weekly contact hours) and course l		ble)				
					a) talk (approx. 30 minutes) or b) written elaboration (approx. 5 to 10 pages)							
10-M-RCY-072-m01		g Cours	e Dynami		stems							
	ECTS	5	Duratior		1 semester	Method of grading numerical grad		Modul level	undergraduate			
	Course	-				(weekly contact hours) and course l		ble)				
					(approx. 30 minute	s) or b) written elaboration (approx.	5 to 10 pages)	1				
10-M-RCP-072-m01		eading Course Optimisation										
	ECTS	5	Duratior		1 semester	Method of grading numerical grad		Modul level	undergraduate			
	Course			· ·		(weekly contact hours) and course l		ble)				
	Method	d of asse	essment	a) talk	(approx. 30 minute	s) or b) written elaboration (approx.	5 to 10 pages)					
Mathematics 4 (5 E	CTS cree	dits)										
10-M-BSA-072-	Semina	ar in Ana	lysis									
m01	ECTS	5	Duration	۱	1 semester	Method of grading numerical grad	le	Modul level	undergraduate			
	Course	S		S (no	information on SWS	(weekly contact hours) and course l	anguage availa	ble)				
	Method	d of asse	essment		pprox. 60 minutes)		- ·					
						e semester in which the course is off German, English if agreed upon with						
	Referre	d to in L	POI		1) 1. Mathematik Ana							
10-M-BSL-072-m01				- 1								
	ECTS	5	Duration		1 semester	Method of grading numerical grad	le l	Modul level	undergraduate			
	Course	-	Duration			(weekly contact hours) and course l			undergraduate			
			essment	· ·	approx. 60 minutes)	(weekly contact hours) and course t	unguage availa	5(0)				
	Method		Soment	Assessment offered: in the semester in which the course is offered Language of assessment: German, English if agreed upon with the examiner								
	Referre	d to in L	.PO I		-	eare Algebra, Algebra und Elemente		orie				

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10-M-BSE-072-	Semina	r in Alg	ebra										
mo1	ECTS	5	Duratio	n	1 semester	Method of grading numerical	grade	Modul level	undergraduate				
	Courses	5		S (no	S (no information on SWS (weekly contact hours) and course language available)								
	Method of assessment			Asses	talk (approx. 60 minutes) Assessment offered: in the semester in which the course is offered Language of assessment: German, English if agreed upon with the examiner								
	Referre	d to in L	POI	§73 (§ 73 (1) 2. Mathematik Lineare Algebra, Algebra und Elemente der Zahlentheorie								
10-M-BSG-072-	Semina	r in Geo	ometry										
m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical	grade	Modul level	undergraduate				
	Courses	5		S (no	information on SWS	(weekly contact hours) and cou	ırse language availa	able)					
	Method of assessment			Asses	talk (approx. 60 minutes) Assessment offered: in the semester in which the course is offered Language of assessment: German, English if agreed upon with the examiner								
	Referre	d to in L	PO I	§73 ((1) 4. Mathematik Ge	ometrie							
10-M-BSZ-072-	Semina	r in Nu	mber The	ory									
m01	ECTS 5 Duratio			n	1 semester	Method of grading numerical	grade	Modul level	undergraduate				
	Courses	5		S (no	information on SWS	(weekly contact hours) and cou	ırse language availa	able)					
	Method of assessment			Asses	talk (approx. 60 minutes) Assessment offered: in the semester in which the course is offered Language of assessment: German, English if agreed upon with the examiner								
	Referre	d to in L	PO I	§73(§ 73 (1) 2. Mathematik Lineare Algebra, Algebra und Elemente der Zahlentheorie								
10-M-BSW-072-	Semina	r in Orc	linary Dif	ferential Equations									
m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical	grade	Modul level	undergraduate				
	Courses	5		S (no	S (no information on SWS (weekly contact hours) and course language available)								
	Method of assessment			talk (approx. 60 minutes) Assessment offered: in the semester in which the course is offered Language of assessment: German, English if agreed upon with the examiner									
	Referre	d to in L	PO I	§73 ((1) 1. Mathematik Ana	alysis							
10-M-BSC-072-	Semina	r in Cor	nplex An	alysis									
m01	ECTS	5	Duration	n	1 semester	Method of grading numerical	grade	Modul level	undergraduate				
	Courses	5		S (no	information on SWS	(weekly contact hours) and cou	ırse language availa	able)					
	Method	of ass	essment	talk (approx. 60 minutes) Assessment offered: in the semester in which the course is offered Language of assessment: German, English if agreed upon with the examiner									
	Referre	d to in L	POI	§73 ((1) 1. Mathematik Ana	alysis							

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10-M-BSN-072-	Seminar in Numerical Mathematics								
m01	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Courses		S (no	information on SWS	(weekly contact hours) and course language availa	ıble)			
	Method of ass	essment		approx. 60 minutes)					
					e semester in which the course is offered				
	Referred to in I		_		German, English if agreed upon with the examiner				
MIDGG		-	8/30	(1) 5. Mathematik An	gewandte Mathematik				
10-M-BSS-072-	Seminar in Sto	chastics							
m01	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Courses		S (no	information on SWS	(weekly contact hours) and course language availa	ıble)			
	Method of ass	essment		approx. 60 minutes)					
				Assessment offered: in the semester in which the course is offered					
			Language of assessment: German, English if agreed upon with the examiner						
	Referred to in I	Referred to in LPO I		§ 73 (1) 3. Mathematik Stochastik					
10-M-BSF-072-m01	Seminar in Fur	ictional A	nalysis						
	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Courses		S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment		talk (approx. 60 minutes)						
10-M-BSO-072-	Seminar in Operation Research								
m01	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Courses	-,	S (no information on SWS (weekly contact hours) and course language available)						
	Method of ass	essment	talk (approx. 60 minutes)						
10-M-BSD-072-	Seminar in Dis	crete Ma	thema						
m01	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Courses	·	S (no	information on SWS	(weekly contact hours) and course language availa	ıble)			
	Method of ass	essment	talk (approx. 60 minutes)					

Application-orient	ed Subject (35 ECTS credi	its)							
Application-orient	ed Subject Biology (35 EC	TS credits)							
Application-orient	ed Subject Biology Comp	ulsory Courses (10 ECTS credits)							
07-2A2GN-	Genetics, Neurobiology, Behaviour								
V-072-m01	ECTS 6 Duration								
	Courses	 This module comprises 3 module components. Information on courses will be listed separately for each module component. o7-2A2GNV-1G-072: V + Ü (no information on SWS (weekly contact hours) and course language available) o7-2A2GNV-2N-072: V + Ü (no information on SWS (weekly contact hours) and course language available) o7-2A2GNV-3V-072: V + Ü (no information on SWS (weekly contact hours) and course language available) 							
	Method of assessment	Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.							
		 Assessment in module component o7-2A2GNV-1G-072: Basic Genetics Basic Genetics 2 ECTS, Method of grading: numerical grade written examination (approx. 30 minutes) Other prerequisites: Admission prerequisite to assessment: regular attendance of exercises and successful completion of the respective exercises as specified at the beginning of the course. Assessment in module component o7-2A2GNV-2N-072: Basic Neurobiology Basic Neurobiology 2 ECTS, Method of grading: numerical grade written examination (approx. 30 minutes) Other prerequisites: Admission prerequisite to assessment: regular attendance of exercises and successful completion of the respective exercises as specified at the beginning of the course. Assessment in module component o7-2A2GNV-3V-072: Behavioural Biology Basic Neurobiology 2 ECTS, Method of grading: numerical grade written examination (approx. 30 minutes) Other prerequisites: Admission prerequisite to assessment: regular attendance of exercises and successful completion of the respective exercises as specified at the beginning of the course. Assessment in module component o7-2A2GNV-3V-072: Behavioural Biology Behavioural Biology 2 ECTS, Method of grading: numerical grade written examination (approx. 30 minutes, word problems and/or multiple choice questions) Other prerequisites: Admission prerequisite to assessment: regular attendance of exercises and successful completion of the respective exercises as specified at the beginning of the course. 							
	other prerequisites	By way of exception, additional prerequisites are listed in the section on assessments.							
	Participants and allo- cation of places	Only as part of "spezielles Studienangebot": 10 places.							
07-1A1Z-072-m01	Structure and Function								
	ECTS 4 Duration								
	Courses	V + Ü (no information on SWS (weekly contact hours) and course language available)							
	· · · · · · · · · · · · · · · · · · ·	written examination (60 minutes)							
	other prerequisites	Admission prerequisite to assessment: regular attendance of exercises and successful completion of the respective exercises as specified at the beginning of the course.							

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07-3A3BI-072-m01	Bioinfo	ormatics	;							
	ECTS 2 Duration			ı	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Course	S		٠	07-3A3BI-1B-072:	V (no information on S	. Information on courses wi SWS (weekly contact hours) SWS (weekly contact hours)) and course langua		
	Methoo	d of ass	essment	Asses	sment in this mod	ule comprises the ass	essments in the individual	module component	s as specified below. Unless all individual assessments.	
				Asses	1 ECTS, Method o written examinati sment in module o	f grading: numerical g on (approx. 20 minute component 07-3A3BI-2 f grading: (not) succes	es) 2 B-072: Bioinformatics (Sen			
	Participants and allo- cation of places			Only a	as part of Biochem	istry Master's: 5 place	s. Places will be allocated b	by lot.		
07-3A30E-072-	Ecolog	y of pla	nts and a							
101	ECTS 6 Duratio			า	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses			 This module comprises 2 module components. Information on courses will be listed separately for each module component. o7-3A3OE-1T-072: V + Ü (no information on SWS (weekly contact hours) and course language available) o7-3A3OE-2P-072: V + Ü (no information on SWS (weekly contact hours) and course language available) 						
	Method of assessment			Asses stated Asses and P • Asses Practi	sment in this mod d otherwise, succe sment in module of ractice) 3 ECTS, Method of written examination ce) 3 ECTS, Method of written examination	ule comprises the ass ssful completion of the component o7-3A3OE- f grading: numerical g on (45 minutes) component o7-3A3OE- f grading: numerical g	essments in the individual e module will require succe 1 T-072: Ecology of Animals rade 2 P-072: Ecology of Plant (Le	module component ssful completion of (Lecture and Practio	s as specified below. Unless all individual assessments. ce) Ecology of Animals (Lecture Ecology of Plant (Lecture and	
07-4BFMZ1-092-		<u>.</u>			vanced students					
n01	ECTS	5	Duration		1 semester	Method of grading		Modul level	undergraduate	
	Course	-					hours) and course languag			
				(appr		d) oral examination in			nination of one candidate each 60 minutes) or e) presentation	

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07-4BFMZ2-092-	Cell Biology for advanced students									
m01	ECTS 5 Du	uration		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V + Ü (no information or	n SWS (weekly contact	hours) and course lang	uage available)			
	Method of assess	ment	writter	n examination (60	minutes)					
07-4BFMZ3-092-	Microbiology for advanced students									
m01	ECTS 5 Du	uration		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V + P (no information or	SWS (weekly contact	hours) and course lang	uage available)	• •		
	Method of assessi	ment	writter	n examination (60	minutes)					
07-4BFMZ4-092-	Bioinformatics for	r advan	ced st	udents						
m01	ECTS 5 Du	uration		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V + Ü (no information or	n SWS (weekly contact	hours) and course lang	guage available)			
	Method of assessi	ment	log (ap	oprox. 10 to 20 pa	ges)					
07-4BFMZ5-092-	Biotechnology I									
m01	ECTS 5 Du	uration		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Method of assess		Asses: stated Asses: Asses:	o7-4BFMZ5-2BT-c sment in this mod otherwise, succe sment in module 4 ECTS, Method c log (approx. 10 to Assessment offer sment in module 1 ECTS, Method c presentation (app	592: S (no information lule comprises the ass essful completion of the component o7-4BFMZ of grading: numerical g o 20 pages) red: once a year, sumn	on SWS (weekly contact essments in the indivic e module will require su 5-1BT-092: Biotechnolo rade her semester 5-2BT-092: Seminar to sofully completed)		guage available) s as specified below. Unless all individual assessments. atory Practice)		
07-4BFN-	Neurobiology for a	advanc	ced students							
V01-092-m01	ECTS 5 Du	uration		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			•	. ,	hours) and course lang	guage available)			
	Method of assess	ment	written examination (60 minutes)							
07-4BFN-	Behavioural physi			ciobiology for ad						
V02-092-m01	ECTS 5 Du	uration		1 semester	Method of grading		Modul level	undergraduate		
	Courses			•	. ,	hours) and course lang	guage available)			
	Method of assess	ment	writter	n examination (60	o minutes)					

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07-4BFN-	Ecology of Animals for advanced students									
V03-092-m01	ECTS 5	Duration	ı	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses		V + Ü	(no information on	SWS (weekly contact hours) and course lar	nguage available)				
	Method of as	sessment	writte	n examination (60	minutes)					
07-4BF-	Specific Plant Physiology									
PS1-092-m01	ECTS 5	Duratior	า	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses		V + Ü	(no information on	SWS (weekly contact hours) and course lar	nguage available)				
	Method of as	sessment	writte	n examination (60	minutes)					
07-4BF-	Biophysics -	Basic cours	5e							
PS2-092-m01	ECTS 5	Duratior	า	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses		V + Ü	(no information on	SWS (weekly contact hours) and course lar	nguage available)				
	Method of as	sessment	writte	n examination (60	minutes)					
07-4BF-	Biochemistry	- Basic cou	urse							
PS3-092-m01	ECTS 5	Duratior	า	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses		V + Ü (no information on SWS (weekly contact hours) and course language available)							
	Method of as	sessment	written examination (60 minutes)							
07-4BF-	Basics plant Ecophysiology									
PS4-092-m01	ECTS 5	Duratior	า	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses		V + Ü (no information on SWS (weekly contact hours) and course language available)							
	Method of as	sessment	written examination (60 minutes)							
07-4BF-	Pharmaceutical bio analytics									
PS5-092-m01	ECTS 5	Duratior	า	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses		 This module comprises 2 module components. Information on courses will be listed separately for each module component. o7-4BFPS5-1BA-092: P (no information on SWS (weekly contact hours) and course language available) o7-4BFPS5-2BA-092: S (no information on SWS (weekly contact hours) and course language available) 							
	Method of assessment									
			Asses	4 ECTS, Method of written examination sment in module c 1 ECTS, Method of presentation (app	component 07-4BFPS5-1BA-092: Pharmaceu f grading: numerical grade on (45 minutes) component 07-4BFPS5-2BA-092: Seminar Pl f grading: (not) successfully completed prox. 20 to 30 minutes) ed: once a year, summer semester					

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03-4S1H- G-092-m01	Human Genetics									
	ECTS 5	Duratio	n 1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Courses		• 03-4S1HG-1HZ-0	 This module comprises 2 module components. Information on courses will be listed separately for each module component. o3-4S1HG-1HZ-092: V + Ü (no information on SWS (weekly contact hours) and course language available) o3-4S1HG-2HZ-092: S (no information on SWS (weekly contact hours) and course language available) 						
	Method of as	sessment		odule comprises the assessments in the indicessful completion of the module will require						
			 (Lecture and Laborato 3 ECTS, Method 2 written exami minutes) Other prerequis Assessment in module 2 ECTS, Method presentation (a 	le component 03-4S1HG-1HZ-092: Human Ge bry Practice) d of grading: numerical grade inations (multiple choice): mid-semester exa sites: A basic knowledge of genetics is recom le component 03-4S1HG-2HZ-092: Human Ge d of grading: (not) successfully completed approx. 20 to 30 minutes) sites: A basic knowledge of genetics is recom	mination (15 minutes), en mended. netics (Seminar)					
	other prerequ	uisites	By way of exception, additional prerequisites are listed in the section on assessments.							
03-4S1IM-092-	Immunology									
m01	ECTS 5	Duratio	n 1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Courses		 This module comprises 2 module components. Information on courses will be listed separately for each module component. o3-4S1IM-1IM-092: V + Ü (no information on SWS (weekly contact hours) and course language available) o3-4S1IM-2IM-092: P (no information on SWS (weekly contact hours) and course language available) 							
			stated otherwise, succ Assessment in module Immunology (Lecture a • 2 ECTS, Method • written examina • Language of ass Assessment in module • 3 ECTS, Method • presentation (a • Language of ass	odule comprises the assessments in the indi- cessful completion of the module will require and Practice) d of grading: numerical grade ation (30 minutes) ssessment: German, English where required le component 03-4S1IM-2IM-092: Immunolog d of grading: (not) successfully completed approx. 20 to 30 minutes) ssessment: German, English where required	successful completion of n into Immunology (Lectur	all individual assessments.				
03-4S1P-	Physiologica	l Chemistr	y I							
C-092-m01	ECTS 5	Duratio		Method of grading numerical grade	Modul level	undergraduate				
	Courses		V + Ü (no information	on SWS (weekly contact hours) and course la	inguage available)					
	Method of as	sessment	written examination (6	60 minutes)						

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03-4S1VL-092-m01	1 Virology I									
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses	;	This n	03-4S1VL-1VL-092 03-4S1VL-3VL-092	2: V (no information on 2: P (no information or	. Information on courses will be SWS (weekly contact hours) a SWS (weekly contact hours) a SWS (weekly contact hours) a	nd course langu nd course langu	lage available)		
	Method	of asse	stated Asses Asses Asses	d otherwise, succes sment in module of 1 ECTS, Method o written examinati Language of asse 3 ECTS, Method o written examinati Language of asse sment in module of 1 ECTS, Method o 1 ECTS, Method o	ssful completion of the component 03-4S1VL-1 f grading: numerical gr on (20 minutes) ssment: German, Engl component 03-4S1VL-3 f grading: numerical g on (20 minutes) or ora ssment: German, Engl	ish where required SVL-092: Virology (Laboratory C rade l examination (20 minutes) ish EVL-092: Seminar on General V sfully completed	ul completion of e and Practice) Course)			
			•		ssment: German, Engl					
07-4S1M-	Advance	ed Ligh	t- and Electron-	Microscopy						
Z1-092-m01	ECTS	3	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses	;	V + Ü	V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method	ofasse	essment writte	written examination (45 minutes)						
07-4S1M-	Analysis	s of Chr	romosomes							
Z2-092-m01	ECTS	3	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses	;	V + Ü	(no information on	SWS (weekly contact	hours) and course language av	/ailable)			
	Method	ofasse	essment writte	n examination (45	minutes)					

07-4S1M-	Ecology and	Developme	ental Biology of marine	organisms							
Z3-092-m01	ECTS 5	Duratio	n 1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Courses	;	• 07-4S1MZ3-1M	es 2 module components. Information on courses wil 0-092: Ü (no information on SWS (weekly contact ho 10-092: S (no information on SWS (weekly contact ho	urs) and course la	inguage available)					
	Method of as	sessment	Assessment in this m	odule comprises the assessments in the individual n cessful completion of the module will require succes	nodule componen	ts as specified below. Unless					
		 Assessment in module component o7-4S1MZ3-1MO-o92: Ecology and Developmental Biology of Marine 4 ECTS, Method of grading: numerical grade log (approx. 10 to 20 pages) Assessment offered: once a year, summer semester Other prerequisites: Admission prerequisite to assessment: regular attendance of exercises and tion of the respective exercises as specified at the beginning of the course. Assessment in module component o7-4S1MZ3-2MO-o92: Seminar on Marine Biology 1 ECTS, Method of grading: (not) successfully completed presentation (approx. 20 to 30 minutes) Assessment offered: once a year, summer semester Assessment offered: once a year									
	other prerequ	uisites		additional prerequisites are listed in the section on a	ssessments.						
	Participants cation of pla		 07-4S1MZ3-1M ces, places will Biologie (Biolo of places will b 5% of places (a Biologie (Biolo tics and Mathe gy (as well as quota exceed t Should there b uniform regula ponent that are have successfu consideration. group 1 (95%): this purpose, a grade of all ass (excluding Che done as follow number of ECT (quantitative ra and places wil be allocated acco 	ocation of places will be listed separately for each m O-092: Number of places: 18. Should the number of I be allocated as follows: Places will primarily be alloc gy) with 180 ECTS credits. Should the module be used a minimum of one participant in total) will be alloca gy) with 60 ECTS credits and to students of the Back ematik (Mathematics), each with 180 ECTS credits, a potentially to students of other 'importing' subjects the number of applications, the remaining places will be, within one module component, several courses w tion for the courses of one module component. In the concerned will be allocated in a standardised proc ally completed at least one other module component of Places will primarily be allocated according to the a poplicants will be ranked according to the number of E sessments taken during their studies or of all module is: First, applicants will be ranked, firstly, according S credits (qualitative ranking) and, secondly, according to the allocated according to the runking wi l be allocated according to the studies or of all module is first, applicants will be ranked, firstly, according to the qualitative ranking or otherwise by lo cording to the qualitative ranking or otherwise by lo rding to the following quotas: Quota 1 (50% of places odule components of the Faculty of Biology; among a	applications excer ated to students of d in other subjects oject Biologie (Biologie ted to students of helor's degree sub as part of the app). Should the nun l be allocated to a <i>v</i> ith a restricted nun is case, places of edure. In this pro- of the respective mated as they becomponents in the ecomponents in the matics)) at the to their average ging to their total nun l be calculated as ng applicants with ot. Selection proce s): total number of	ed the number of available pla- of the Bachelor's degree subject s, there will be two quotas: 95% logy) with 180 ECTS credits and f the Bachelor's degree subject jects Computational Mathema- lication-oriented subject Biolo- nber of places available in one pplicants from the other quota. Imber of places, there will be a n all courses of a module com- cedure, applicants who already nodule will be given preferential ne available. Selection process us academic achievements. For lave achieved and their average he subject of Biologie (Biology) time of application. This will be rade weighted according to the umber of ECTS credits achieved the sum of these two rankings, n the same ranking, places will ess group 2 (5%): Places will be f ECTS credits already achieved					
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			of places): allo	applicants with the same number of subject semest cation by lot. Should the module be used only in the ts, places will be allocated according to the selectior 10-092:	Bachelor's degree	subject Biologie (Biology) with					

07-4S1M-	Methods in	Biotechnolo	gy								
Z4-092-m01	ECTS 2	Duratio	n 1 semester	Method of grading nu	umerical grade	Modul level	undergraduate				
	Courses		 This module comprises 2 module components. Information on courses will be listed separately for each module component. o7-4S1MZ4-1AB-092: V (no information on SWS (weekly contact hours) and course language available) o7-4S1MZ4-2AB-092: S (no information on SWS (weekly contact hours) and course language available) 								
	Method of a	issessment		Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.							
			 Assessment in module component o7-4S1MZ4-1AB-092: Methods in Biotechnology (Lecture) 1 ECTS, Method of grading: numerical grade written examination (20 minutes) Assessment in module component o7-4S1MZ4-2AB-092: Seminar on Methods in Biotechnology 1 ECTS, Method of grading: (not) successfully completed presentation (approx. 20 to 30 minutes) Assessment offered: once a year, summer semester 								
07-4S1M-	Aspects of r	nodern Biot	echnology								
Z5-092-m01	ECTS 2 Duration		n 1 semester	Method of grading nu	umerical grade	Modul level	undergraduate				
	Courses		 This module comprises 2 module components. Information on courses will be listed separately for each module component. 07-4S1MZ5-1MB-092: V (no information on SWS (weekly contact hours) and course language available) 07-4S1MZ5-2MB-092: S (no information on SWS (weekly contact hours) and course language available) 								
	Method of a	issessment	Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments. Assessment in module component o7-4S1MZ5-1MB-092: Aspects of Modern Biotechnology (Lecture) • 1 ECTS, Method of grading: numerical grade								
			 1 ECTS, Method of grading: numerical grade written examination (20 minutes) Assessment in module component 07-4S1MZ5-2MB-092: Seminar on Molecular Biotechnology 1 ECTS, Method of grading: (not) successfully completed presentation (approx. 20 to 30 minutes) Assessment offered: once a year, summer semester 								
07-4S1M-	Special Bio	informatics I									
Z6-092-m01	ECTS 5	Duratio	n 1 semester	Method of grading nu	umerical grade	Modul level	undergraduate				
	Courses		V + Ü (no information c	on SWS (weekly contact ho	urs) and course lang	guage available)	·				
	Method of a	issessment	log (approx. 10 to 20 pages)								
07-4S1N-	Neurobiolos	gy I									
V01-092-m01	ECTS 5	Duration	n 1 semester	Method of grading nu	umerical grade	Modul level	undergraduate				
	Courses		P (no information on S'	WS (weekly contact hours)	and course languag	e available)					
	Method of a	scessment	P (no information on SWS (weekly contact hours) and course language available) log (approx. 10 to 20 pages)								

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07-4S1N-	Aspect	ts of Inte	egrative Be	ehaviou	havioural Biology						
VO2-092-m01	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	25		•	 his module comprises 2 module components. Information on courses will be listed separately for each module component. o7-4S1NVO2-1IV-092: V (no information on SWS (weekly contact hours) and course language available) o7-4S1NVO2-2IV-092: S (no information on SWS (weekly contact hours) and course language available) 						
	Method of assessment						essments in the individual moc e module will require successfu				
				Assess	2 ECTS, Method of written examinatic Language of asses Other prerequisite sment in module co 3 ECTS, Method of presentation (appl Assessment offere Language of asses	f grading: numerical g on (30 minutes) ssment: German or En es: A good command o omponent 07-4S1NVC f grading: (not) succes rox. 20 to 30 minutes ed: once a year, summ ssment: German or En	grade nglish of the English language is recor D2-2IV-092: Current Topics in B ssfully completed) ner semester	nmended. ehavioural Biolo	Biology 1 (Lecture and Practice) 999		
	otherp	orerequi	sites	By way	of exception, add	litional prerequisites a	are listed in the section on asse	essments.			

07-4S1N-	Functional Morphology of arthropods												
V03-092-m01	ECTS	5	Duratio	n	1 semester	Method of	f grading num	ierical grade		Modul level	undergraduate		
	Course	S		V + Ü	V + Ü (no information on SWS (weekly contact hours) and course language available)								
	Method	d of asso	essment	term p	term paper (approx. 5 to 10 pages)								
	other prerequisites				Admission prerequisite to assessment: regular attendance of exercises and successful completion of the respective exercises as specified at the beginning of the course.								
		pants an of place		follow dits. S Bache will be Bache of the ber of from t re will poner cessfu waitir prima ked a studie thema ding t to the lated the sa (5%): achie amon catior	vs: Places will properties of the model of t	rimarily be alloc ule be used in o bject Biologie (E tudents of the B bjects Computa ented subject B le in one quota e . Should there b egulation for the erned will be alloc antained and pl d according to th number of ECTS ule components (cs)) at the time grade weighted of ECTS credits a nese two ranking accs will be alloc allocated accord /module compo be allocated by th the same nun	ated to studer ther subjects, Biology) with 1 achelor's degr tional Mathem iology (as well exceed the nur e, within one r courses of on ocated in a sta er module com laces re-alloca the applicants' credits they h in the subject of application according to t achieved (qua gs, and places cated accordir ing to the follo ments of the Fa- lot. Quota 2 (2 mber of subject	nts of the Bachelo there will be two 80 ECTS credits a ree subject Biolog natics and Mather l as potentially to mber of application module component e module component andardised process ted as they becor previous academ ave achieved and of Biologie (Biolo . This will be done the number of ECT ntitative ranking) will be allocated ng to the qualitati- bwing quotas: Qua aculty of Biology; 25% of places): no t semesters, place	or's degree o quotas: 95 and 5% of p gie (Biology matik (Math o students o ions, the rer ent, several onent. In thi edure. In thi spective mo me availabl nic achiever d their aver logy) (exclud e as follows TS credits (). The applie d according ive ranking iota 1 (50% ; among app number of sic ces will be a	subject Biolo 5% of places v olaces (a minin) with 60 ECT hematics), ea of other 'impor maining place courses with is case, places is procedure, a odule will be g le. Selection p ments. For this rage grade of a ding Chemie (s: First, applic (qualitative ran cants' positio to this third ran or otherwise of places): to plicants with ubject semesiallocated by lo	laces, places will be allocated as gie (Biology) with 180 ECTS cre- will be allocated to students of the mum of one participant in total) S credits and to students of the ch with 180 ECTS credits, as part rting' subjects). Should the num- es will be allocated to applicants a restricted number of places, the- s on all courses of a module com- applicants who already have suc- given preferential consideration. A process group 1 (95%): Places will s purpose, applicants will be ran- all assessments taken during their (Chemistry), Physik (Physics), Ma- cants will be ranked, firstly, accor- nking) and, secondly, according in in a third ranking will be calcu- anking. Among applicants with by lot. Selection process group 2 tal number of ECTS credits already the same number of ECTS credits ters of the respective applicant; ot. Quota 3 (25% of places): allo- plogy) with 180 ECTS credits, pla-		
07-4S1N-	Ecology	y of inse	ects										
V04-092-m01	ECTS	5	Duratio	n	1 semester	Method of	f grading num	nerical grade		Modul level	undergraduate		
	Course	S		V + Ü	(no information	on SWS (weekl	y contact hour	rs) and course lan	nguage ava	ilable)			
	Method	d of asso	essment	writte	en examination (60 minutes)							

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07-4S1N-	Ecology	y of por	oulations								
V05-092-m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Course	S		•	 This module comprises 2 module components. Information on courses will be listed separately for each module component. o7-4S1NVO5-1PO-092: V + Ü (no information on SWS (weekly contact hours) and course language available) o7-4S1NVO5-2PO-092: S (no information on SWS (weekly contact hours) and course language available) 						
	Method	l of ass	essment			odule comprises the assessments in the indiv cessful completion of the module will require					
				 Assessment in module component o7-4S1NV05-1PO-092: Basic Ecology of Populations (Lecture, Practice) Basic Ecology of Populations (Lecture, Practice) 4 ECTS, Method of grading: numerical grade written examination (45 minutes) Assessment in module component o7-4S1NV05-2PO-092: Ecology of Populations (Seminar) 1 ECTS, Method of grading: (not) successfully completed presentation (approx. 20 to 30 minutes) 							
07-4S1PS1-092-	Molecular modelling - From DNA to protein										
m01	ECTS 5 Duratio			n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses			V + Ü	(no information	on SWS (weekly contact hours) and course la	inguage available)				
	Method	d of ass	essment	comp	computerised practical examination (4 hours)						
07-4S1PS2-092-	Introduction Methods in Plant Ecophysiology										
m01	ECTS 5 Duratio			n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses		V + Ü (no information on SWS (weekly contact hours) and course language available)								
	Method	d of ass	essment	log (a	log (approx. 10 to 20 pages)						
07-4S1PS3-092-	Pharmaceutical Drugs										
m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Course	S		•	 This module comprises 2 module components. Information on courses will be listed separately for each module component. o7-4S1PS3-1PD-092: Ü (no information on SWS (weekly contact hours) and course language available) o7-4S1PS3-2PD-092: S (no information on SWS (weekly contact hours) and course language available) 						
	Method of assessment					odule comprises the assessments in the indiv cessful completion of the module will require					
				Asses	3 ECTS, Method written examina ssment in module 2 ECTS, Method	e component o7-4S1PS3-1PD-092: Pharmace d of grading: numerical grade ation (45 minutes) e component o7-4S1PS3-2PD-092: Seminar of d of grading: (not) successfully completed pprox. 20 to 30 minutes)		Course)			

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07-4S1PS4-092-	Method	ds Phar	maceutica	al Biolo	ogy - practical cou	rse					
m01	ECTS	5	Duratio	n	1 semester	Method of gradin	g numerical grade		Modul level	undergraduate	
	Course	S			 inis module comprises 2 module components. Information on courses will be listed separately for each module component. o7-4S1PS4-1PB-092: P (no information on SWS (weekly contact hours) and course language available) o7-4S1PS4-2PB-092: S (no information on SWS (weekly contact hours) and course language available) 						
	Method of assessment				Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.						
				Cours	 Assessment in module component o7-4S1PS4-1PB-092: Analytics and Molecular Biology of Pharmaceutical Drugs (Laboratory Course) 4 ECTS, Method of grading: numerical grade written examination (45 minutes) Assessment in module component o7-4S1PS4-2PB-092: Seminar on Analytics and Molecular Biology of Pharmaceutical Drugs 						
				•							
					1 ECTS, Method of presentation (ap	of grading: (not) succ prox. 20 to 30 minut red: once a year, win	essfully completed es)	on Analytics	and Molecula	r Biology of Pharmaceutical Drugs	
07-5S2N-	Neurob	iology	11								
V01-092-m01	ECTS 10 Duratio			n	1 semester	Method of gradin	g numerical grade		Modul level	undergraduate	
	Courses				 This module comprises 2 module components. Information on courses will be listed separately for each module component. o7-5S2NVO1-1NB-092: V + Ü (no information on SWS (weekly contact hours) and course language available) o7-5S2NVO1-2NB-092: S (no information on SWS (weekly contact hours) and course language available) 						
	Method	d of ass	essment							s as specified below. Unless all individual assessments.	
				ture a	nd practical cours 7 ECTS, Method c a) written examin	e) of grading: numerica nation (approx. 60 mi	l grade nutes) or b) log (appro	ox. 10 to 20 p	bages) or c) ora	cal course) Neurobiology 2 (lec-	
					presentation (ap Language of asse ssment in module 3 ECTS, Method of	prox. 20 to 30 minut essment: German or	es) English V01-2NB-092: Neurob essfully completed		-	ites, approx. 60 minutes) or e)	
07-5S2N-			havioural		gy II						
VO2-092-m01	ECTS	10	Duration		1 semester	-	g numerical grade		Modul level	undergraduate	
	Course	-					ct hours) and course la				
	Methoo	d of ass	essment	(appr	a) written examination (approx. 60 minutes) or b) log (approx. 10 to 20 pages) or c) oral examination of one candidate each (approx. 30 minutes) or d) oral examination in groups (groups of up to 3 candidates, approx. 60 minutes) or e) presentation (approx. 20 to 30 minutes)						

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07-5S2N-	Ecology	y of anir	nals II								
V03-092-m01	ECTS	10	Duratior	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		 This module comprises 2 module components. Information on courses will be listed separately for each module component. o7-5S2NVO3-10E-092: V + Ü (no information on SWS (weekly contact hours) and course language available) o7-5S2NVO3-20E-092: S (no information on SWS (weekly contact hours) and course language available) 							
	Method	d of asse	essment	Asses stated Asses ture al	sment in this modul l otherwise, success sment in module co nd practice) Ecology 9 ECTS, Method of a) written examinat each (approx. 30 m presentation (appro Language of assess sment in module co 1 ECTS, Method of g	e comprises the ass ful completion of the mponent 07-5S2NVC of Animals 2 - Plann grading: numerical g ion (approx. 60 minu- ninutes) or d) oral ex ox. 20 to 30 minutes sment: German or En	essments in the individual mod e module will require successfu D3-10E-092: Ecology of Animals ning of experiments and Statistic grade utes) or b) log (approx. 10 to 20 p amination in groups (groups of) nglish D3-20E-092: Ecology of Animals asfully completed	ule component l completion of cs (lecture and pages) or c) oral 2 or 3 candida	s as specified below. Unless all individual assessments. experiments and Statistics (lec- practice) examination of one candidate tes, approx. 60 minutes) or e)		
						d: once a year, winte					

07-5S2M-	Metho	ds in mo	olecular ce	ell - and developmental Biology						
Z1-092-m01	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Course	S			07-5S2MZ1-1ZE-0 07-5S2MZ1-2ZE-0	92: V + Ü (no informat 92: Ü (no information	Information on courses will b ion on SWS (weekly contact ho on SWS (weekly contact hours on SWS (weekly contact hours)	urs) and course) and course lan	iguage available)	
	Method	d of ass					essments in the individual mod e module will require successfu			
				sing a comp	nd computer skills uter skills (lecture 3 ECTS, Method o a) written examin each (approx. 30 presentation (app Language of asse sment in module o e) 6 ECTS, Method o a) written examin each (approx. 30 presentation (app Language of asse sment in module o 1 ECTS, Method o	s (lecture and practice) and practice) f grading: numerical g ation (approx. 60 minu minutes) or d) oral ex orox. 20 to 30 minutes ssment: German or En component 07-5S2MZ of grading: numerical g ation (approx. 60 minu minutes) or d) oral ex orox. 20 to 30 minutes ssment: German, Engl) Methods in molecular cell - ar grade utes) or b) log (approx. 10 to 20 (amination in groups (groups o) gglish 1-2ZE-092: Methods in molecu grade utes) or b) log (approx. 10 to 20 (amination in groups (groups o) lish 1-3ZE-092: Current topics in mo ssfully completed	nd development pages) or c) ora of 2 or 3 candida lar cell - and dev pages) or c) ora of 2 or 3 candida	velopmental Biology - Data proces- al Biology - Data processing and l examination of one candidate ates, approx. 60 minutes) or e) velopmental Biology (laboratory l examination of one candidate ates, approx. 60 minutes) or e) ad developmental Biology (semi-	

07-5S2M-	Specif	ic Micro	obiology II						
Z2-092-m01	ECTS	10	Duration	n 1 semeste	r Method of grad	ing numerical grade	Modul level	undergraduate	
	Course	25		 07-5S2MZ 	2-1MI-092: V + Ü (no infor	rmation on SWS (weekly	urses will be listed separat contact hours) and course ntact hours) and course lan		
	Metho	d of as	sessment	Assessment in th stated otherwise	is module comprises the , successful completion c	assessments in the ind of the module will require	vidual module componen e successful completion of	ts as specified below. Unless f all individual assessments.	
				tory course) Spec 7 ECTS, Ma a) written each (app presentati Language Assessment in m 3 ECTS, Ma	cific microbiology 2 - mole ethod of grading: numeric examination (approx. 60 r rox. 30 minutes) or d) or ion (approx. 20 to 30 minu of assessment: German o	ecular microbiology (lect cal grade minutes) or b) log (appro al examination in groups utes) or English 2 MZ2-2MI-092: Advance ccessfully completed	ure and laboratory course) x. 10 to 20 pages) or c) ora 5 (groups of 2 or 3 candida	r microbiology (lecture and labora-) al examination of one candidate ates, approx. 60 minutes) or e) ar in molecular microbiology	
07-5S2M-	Specif	ic Bioin	formatics	11					
Z3-092-m01	ECTS 10 Duratio		n 1 semeste	r Method of grad	ing numerical grade	Modul level	undergraduate		
	Course	es		V + Ü (no informa	ation on SWS (weekly con	tact hours) and course la	anguage available)		
	Metho	d of as:	sessment	a) written examination (approx. 60 minutes) or b) log (approx. 10 to 20 pages) or c) oral examination of one candidate each (approx. 30 minutes) or d) oral examination in groups (groups of up to 3 candidates, approx. 60 minutes) or e) presentation (approx. 20 to 30 minutes)					
07-5S2M-	Specific Biotechnology II								
Z4-092-m01	ECTS	10	Duration	n 1 semeste	r Method of grad	ing numerical grade	Modul level	undergraduate	
	Course	25		 This module comprises 2 module components. Information on courses will be listed separately for each module component. 07-5S2MZ4-1BT-092: P (no information on SWS (weekly contact hours) and course language available) 07-5S2MZ4-2BT-092: S (no information on SWS (weekly contact hours) and course language available) 					
	Metho	d of as	sessment					ts as specified below. Unless f all individual assessments.	
				 Assessment in module component o7-5S2MZ4-1BT-092: Specific Biotechnology 2 - Practical Biotechnology 2 (laboratory course) 8 ECTS, Method of grading: numerical grade a) written examination (approx. 60 minutes) or b) log (approx. 10 to 20 pages) or c) oral examination of one candidate each (approx. 30 minutes) or d) oral examination in groups (groups of 2 or 3 candidates, approx. 60 minutes) or e) presentation (approx. 20 to 30 minutes) Language of assessment: German or English Assessment in module component o7-5S2MZ4-2BT-092: Specific Biotechnology 2 - Seminar Biotechnology 2 2 ECTS, Method of grading: (not) successfully completed presentation (approx. 20 to 30 minutes) 					

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07-5S2PS1-092-	Physiology of membrane transport mechanisms									
m01	ECTS 10 Duratio			n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Course	S		•	07-5S2PS1-1MT-09	92: Ü (no information)	. Information on courses will be on SWS (weekly contact hours) on SWS (weekly contact hours)	and course lan		
	Method of assessment						essments in the individual moc e module will require successfu			
				 Assessment in module component o7-5S2PS1-1MT-092: Physiology of membrane transport mechanisms (laboratory course) 9 ECTS, Method of grading: numerical grade a) written examination (approx. 60 minutes) or b) log (approx. 10 to 20 pages) or c) oral examination of one candidate each (approx. 30 minutes) or d) oral examination in groups (groups of 2 or 3 candidates, approx. 60 minutes) or e) presentation (approx. 20 to 30 minutes) Language of assessment: German or English Assessment in module component 07-5S2PS1-2MT-092: Physiology of membrane transport mechanisms - Progress in plant physiology (seminar) 1 ECTS, Method of grading: (not) successfully completed presentation (approx. 20 to 30 minutes) 						
07-5S2PS2-092-	Molecular biology of plants									
m01	ECTS 10 Duratio			n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses			 This module comprises 2 module components. Information on courses will be listed separately for each module component. o7-5S2PS2-1MP-092: Ü (no information on SWS (weekly contact hours) and course language available) o7-5S2PS2-2MP-092: S (no information on SWS (weekly contact hours) and course language available) 						
	Method of assessment			stated	d otherwise, succes	sful completion of the	essments in the individual moc e module will require successfu 2-1MP-092: Molecular Biology o	Il completion of	all individual assessments.	
				• Asses	9 ECTS, Method of a) written examina each (approx. 30 r presentation (appr Language of asses sement in module co 1 ECTS, Method of	f grading: numerical g ation (approx. 60 minu minutes) or d) oral ex rox. 20 to 30 minutes) asment: German or En	rade utes) or b) log (approx. 10 to 20 amination in groups (groups o) glish 2-2MP-092: Molecular Biology o ssfully completed	pages) or c) oral f 2 or 3 candida	examination of one candidate	

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07-5S2PS3-092-	Protein	bioche	emistry an	ry and expression of recombinant proteins							
m01	ECTS 10 Duration			า	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		•	07-5S2PS3-1PP-09	2: Ü (no information	s. Information on courses w on SWS (weekly contact ho on SWS (weekly contact ho	ours) and course lan			
	Method	l of ass	essment	stated	d otherwise, success	sful completion of the	e module will require succe	essful completion of	s as specified below. Unless all individual assessments.		
				 Assessment in module component o7-5S2PS3-1PP-o92: Protein biochemistry and expression of recombinant proteins (laboratory course) 9 ECTS, Method of grading: numerical grade a) written examination (approx. 60 minutes) or b) log (approx. 10 to 20 pages) or c) oral examination of one candidate each (approx. 30 minutes) or d) oral examination in groups (groups of 2 or 3 candidates, approx. 60 minutes) or e) presentation (approx. 20 to 30 minutes) Language of assessment: German or English Assessment in module component o7-5S2PS3-2PP-o92: Protein biochemistry and expression of recombinant proteins - Progress in plant physiology (seminar) 1 ECTS, Method of grading: (not) successfully completed presentation (approx. 20 to 30 minutes) 							
07-5S2PS4-092-	Specific ecophysiology of plants										
m01	ECTS	10	Duration	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			 This module comprises 2 module components. Information on courses will be listed separately for each module component. 07-5S2PS4-10P-092: Ü (no information on SWS (weekly contact hours) and course language available) 07-5S2PS4-20P-092: S (no information on SWS (weekly contact hours) and course language available) 							
	sta As								s as specified below. Unless all individual assessments.		
				• Asses	9 ECTS, Method of a) written examina each (approx. 30 n presentation (appr Language of asses sment in module co 1 ECTS, Method of	grading: numerical g tion (approx. 60 minu ninutes) or d) oral ex rox. 20 to 30 minutes sment: German or En	utes) or b) log (approx. 10 to amination in groups (grou) glish 4-20P-092: Specific ecophy ssfully completed	o 20 pages) or c) ora ps of 2 or 3 candida	l examination of one candidate ates, approx. 60 minutes) or e)		

07-5S2PS5-092-											
m01	ECTS 10 Duratio				1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S			07-5S2PS5-1MB-0	92: P (no information	s. Information on courses w on SWS (weekly contact he on SWS (weekly contact h	ours) and course lan			
	Methoo	d of ass	essment						s as specified below. Unless all individual assessments.		
				cours • • Asses	e) 9 ECTS, Method of a) written examin each (approx. 30 presentation (app Language of asse ssment in module of 1 ECTS, Method of	of grading: numerical g ation (approx. 60 min minutes) or d) oral ex prox. 20 to 30 minutes essment: German or Er	grade utes) or b) log (approx. 10 to kamination in groups (grou) nglish 5 -2MB-092: Molecular biolo ssfully completed	o 20 pages) or c) oral ps of 2 or 3 candida	harmaceutical biology (Laboratory l examination of one candidate htes, approx. 60 minutes) or e) harmaceutical biology (seminar)		
07-5S2PS6-092-	Bioche	mical m	ethods in	n pharmaceutical Biology							
m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			 This module comprises 2 module components. Information on courses will be listed separately for each module component. 07-5S2PS6-1BC-092: P (no information on SWS (weekly contact hours) and course language available) 07-5S2PS6-2BC-092: S (no information on SWS (weekly contact hours) and course language available) 							
	Method of assessment			 Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments. Assessment in module component o7-5S2PS6-1BC-o92: Molecular biological methods in pharmaceutical biology (Laboratory course) 9 ECTS, Method of grading: numerical grade a) written examination (approx. 60 minutes) or b) log (approx. 10 to 20 pages) or c) oral examination of one candidate each (approx. 30 minutes) or d) oral examination in groups (groups of 2 or 3 candidates, approx. 60 minutes) or e) presentation (approx. 20 to 30 minutes) Language of assessment: German or English Assessment in module component o7-5S2PS6-2BC-o92: Biochemical methods in pharmaceutical Biology (seminar) 1 ECTS, Method of grading: (not) successfully completed presentation (approx. 20 to 30 minutes) 							
03-5S2IM-092-	Immun										
m01		10	Duration		1 semester	Method of grading		Modul level	undergraduate		
	Course						hours) and course languag				
	Methoo	d of ass	essment	a) written examination (approx. 60 minutes) or b) log (approx. 10 to 20 pages) or c) oral examination of one candidate each (approx. 30 minutes) or d) oral examination in groups (groups of up to 3 candidates, approx. 60 minutes) or e) presentation (approx. 20 to 30 minutes)							

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03-5S2V-	Virolog	gy II								
L-092-m01	ECTS	10	Duration	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Course	!S	TI	 This module comprises 3 module components. Information on courses will be listed separately for each module component. o3-552VL-1VL-092: V (no information on SWS (weekly contact hours) and course language available) o3-552VL-2VL-092: S (no information on SWS (weekly contact hours) and course language available) o3-552VL-3VL-092: P (no information on SWS (weekly contact hours) and course language available) o3-552VL-3VL-092: P (no information on SWS (weekly contact hours) and course language available) 						
	Methoo	Method of assessment		Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.						
			A	 1 ECTS, Method written examinat Language of ass ssessment in module 1 ECTS, Method presentation (ap Language of ass ssessment in module 8 ECTS, Method written examinat 	component 03-5S2VL-1VL-092: Virology 2 (le of grading: numerical grade tion (30 minutes) essment: German, English where required component 03-5S2VL-2VL-092: Virology 2 (s of grading: (not) successfully completed oprox. 20 to 30 minutes) essment: German, English component 03-5S2VL-3VL-092: Virology 2 (la of grading: numerical grade tion (20 minutes) or oral examination (20 mir essment: German, English where required	eminar) aboratory course)				
03-5S2P-	Physio									
C-092-m01	ECTS	10	Duration	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Course	25	TI	 This module comprises 2 module components. Information on courses will be listed separately for each module component. o3-5S2PC-1HB1-092: Ü (no information on SWS (weekly contact hours) and course language available) o3-5S2PC-2HB-092: S (no information on SWS (weekly contact hours) and course language available) 						
Method of as			51 A	ssessment in this mod tated otherwise, succe ssessment in module 9 ECTS, Method a) written examine each (approx. 30 presentation (ap Language of ass ssessment in module 1 ECTS, Method	dule comprises the assessments in the indivises component 03-5S2PC-1HB1-092: Physiologic of grading: numerical grade nation (approx. 60 minutes) or b) log (approx. o minutes) or d) oral examination in groups (prox. 20 to 30 minutes) essment: German, English component 03-5S2PC-2HB-092: Physiologic of grading: (not) successfully completed prox. 20 to 30 minutes)	idual module component successful completion of cal chemistry 2 - Human I . 10 to 20 pages) or c) ora (groups of 2 or 3 candida	is as specified below. Unless all individual assessments. piochemistry (laboratory course) l examination of one candidate ates, approx. 60 minutes) or e)			

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ECTS 4 Duration 1 semester Method of grading numerical grade Modul level undergraduate Courses V + Ü (no information on SWS (weekly contact hours) and course language available) Method of assessment written examination (approx. 60 minutes) other prerequisites Admission prerequisite to assessment: regular attendance of and participation in exercises as well as successful completion of the respective exercises as specified at the beginning of the course. 07-1A1P-072-m01 The Plant Kingdom ECTS 4 Duration 1 semester Method of grading numerical grade Modul level undergraduate Courses V + Ü (no information on SWS (weekly contact hours) and course language available) Modul level undergraduate Courses V + Ü (no information on SWS (weekly contact hours) and course language available) Modul level undergraduate Method of assessment written examination (approx. 60 minutes) Modul level undergraduate 07-3A3GE-072-m01 Genetics Admission prerequisite to assessment: regular attendance of exercises as well as successful completion of the respective exercises. 07-3A3GE-072-m01 Genetics I semester Method of grading numerical grade Modul level undergraduate 07-3A3GE-0	07-5EP-072-m01	External Pract	ical Cours	ie						
Method of assessment a) written examination (approx. 6 o minutes) or b) log (approx. 10 to 20 pages) or c) oral examination of one candidate each (approx. 20 to 30 minutes) or d) oral examination in groups (groups of up to 3 candidates, approx. 60 minutes) or e) presentation 07-5AP-072-min Practical Course as exchange student ECTS 10 Duration 07-1A1E-072-min Evolution P (no information on SWS (weekly contact hours) and course language available) 07-1A1E-072-min Evolution Evolution a semester 07-1A1E-072-min Evolution Evolution a semester 07-1A1E-072-min Evolution Evolution a semester Method of grading numerical grade Modul level undergraduate 07-1A1E-072-min Evolution a semester Method of grading numerical grade Modul level undergraduate 07-1A1E-072-min Evolution a semination (so minutes) other precequisite Method of grading numerical grade Modul level undergraduate		ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
or server with the server withe server with the server with the server with the server with th		Courses		P (no	information on SWS	(weekly contact hou	rs) and course language availa	ble)		
o7-5AP-072-moi Practical Course as exchange student O7-5AP-072-moi Picatical Course as exchange student ECTS 10 Duration 1 semester Method of grading numerical grade Modul level undergraduate O7-1A1E-072-moi Evolution - Basics and Principles (Lecture and Practice) Evolution - Basics and Principles (Lecture and Practice) O7-1A1E-072-moi Evolution - Basics and Principles (Lecture and Practice) Method of assessment Witten examination (30 minutes) O7-1A1E-072-moi Evolution - Basics and Principles (Lecture and Practice) Method of assessment Witten examination (30 minutes) O7-1A1E-072-moi Evolution - Basics and Principles (Lecture and Practice) Method of grading numerical grade Modul level undergraduate Courses U (no information on SWS (weekly contact hours) and course language available) Method of assessment Witten examination (30 minutes) 07-1A1E-072-moi The Animal Kingdom Locurses V + 0 (no information on SWS (weekly contact hours) and course language available) Method of assessment written examination (30 minutes) Method of grading numerical grade Modul level undergraduate Courses V + 0 (no information on SWS (weekly contact hours) and course language available) Method of assessment Method of		Method of ass	essment							
o7-5AP-072-m01 Practical Course as exchange student ECTS 10 Duration 1 semester Method of grading numerical grade Modul level undergraduate Courses P (no information on SWS (weekly contact hours) and course language available) Method of assessment a) written examination (approx. 6 o minutes) or b) log (approx. 10 to 20 pages) or c) oral examination of one candidate each (approx. 30 o minutes) or d) oral examination in groups (groups of up to 3 candidates, approx. 6 o minutes) or e) presentation (approx. 10 to 20 pages) or c) oral examination of one candidate each (approx. 30 o minutes) 07-1A1E-072-m01 ECTS 1 Duration 1 semester Method of grading numerical grade Modul level undergraduate Courses 0 (no information on SWS (weekly contact hours) and course language available) undergraduate 0r/1A1E-072-m01 Temester Method of grading numerical grade Modul level undergraduate Courses V + 0 (no information on SWS (weekly contact hours) and course language available) dergraduate dourse domission precupiliste as sessment: regular attendance of and participation in exercises as well as successful completion of the course. or -1A1E-072-m01 Temetrister Method of grading numerical grade							groups (groups of up to 3 cand	idates, approx.	. 60 minutes) or e) presentation	
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Method of assessment a) written examination (approx. 6 o minutes) or b) log (approx. 10 to 20 pages) or c) oral examination of one candidate each (approx. 30 minutes) or d) oral examination in groups (groups of up to 3 candidates, approx. 6 o minutes) or e) presentation (approx. 20 to 30 minutes) 07-1A1E-072-m0 Evolution - Basics and Principles (lecture and Practice) 07-1A1E-072-m0 EVolution - Basics and Principles (lecture and Practice) 07-1A1T-072-m0 The Animal Kingdom 07-1A1T-072-m0 The Animal Kingdom 07-1A1E-072-m0 The Animal Kingdom 07-1A1P-072-m0 The Animal Kingdom 07-1A1P-072-m0 The Part Ki							_		undergraduate	
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08-BC-072-m01 Biochemistry ECTS 6 Duration 1 semester Method of grading numerical grade Modul level undergraduate Courses V + Ü + V + Ü (no information on SWS (weekly contact hours) and course language available) Method of assessment written examination (90 minutes)		Courses		V + S	(no information on S	SWS (weekly contact	hours) and course language av	ailable)		
ECTS6Duration1 semesterMethod of gradingnumerical gradeModul levelundergraduateCoursesV + Ü + V + Ü (no information on SWS (weekly contact hours) and course language available)Method of assessmentwritten examination (90 minutes)		Method of ass	essment	written examination (30 minutes)						
CoursesV + Ü + V + Ü (no information on SWS (weekly contact hours) and course language available)Method of assessmentwritten examination (90 minutes)	08-BC-072-m01	Biochemistry								
Method of assessment written examination (90 minutes)		ECTS 6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
		Courses			-		contact hours) and course lang	uage available)		
other prerequisites Registration for assessment: Yes, as specified.		Method of ass	essment	writte	n examination (90 n	ninutes)				
		other prerequi	sites	Regist	tration for assessme	nt: Yes, as specified.				

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Application-oriented Subject Chemistry (35 ECTS credits)									
Application-oriente	d Subject Chem	istry Con	npulso	ry Courses (26 ECTS	S credits)				
08-0C1-072-m01	Organic Chemi	stry 1							
	ECTS 5 Duration		า	1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Courses		V + Ü	(no information on S	SWS (weekly contact hours) and course language av	/ailable)			
	Method of asse	essment	writte	written examination (90 minutes)					
	other prerequis	sites	Registration for assessment: Yes, as specified.						
08-PC1-072-m01		uantum m	nechanics and spectroscopy						
	ECTS 8	Duratior		1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Courses			V + Ü + V + Ü (no information on SWS (weekly contact hours) and course language available)					
	Method of asse	essment		a) 1 to 3 written examinations (1 written examination: 90 minutes; 2 written examinations: 60 or 90 minutes each; 3 written examinations: 60 minutes each) or b) oral examination in groups (groups of 2, approx. 30 minutes)					
11-EFNF-072-m01	Introduction to	Physics	for Students of Non-physics-related Minor Subjects						
	ECTS 7	Duratior	า	2 semester	Method of grading numerical grade	Modul level	undergraduate		
	Courses		V + V (no information on SWS (weekly contact hours) and course language available)						
	Method of asse	essment	written examination (approx. 120 minutes)						
	Participants an cation of places		Only as part of pool of general key skills (ASQ): 10 places. Places will be allocated by lot.						
08-CM1-072-m01	General Chemi	stry for N	ry for Mathematics Majors						
	ECTS 6	Duration		1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Courses		V (no information on SWS (weekly contact hours) and course language available)						
	Method of asse	essment	written examination (approx. 60 minutes)						
Application-oriente	ed Subject Chem	iisty Com	pulsor	y Electives (9 ECTS o	credits)				
08-0C2-072-m01	Organic Chemi	stry 2							
	ECTS 9 Duratio		1	1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Courses		V + Ü + V (no information on SWS (weekly contact hours) and course language available)						
	Method of asse	essment	a) 1 to 3 written examinations (1 written examination: 90 minutes; 2 written examinations: 60 or 90 minutes each; 3 written						
			examinations: 60 minutes each) or b) oral examination in groups (groups of 2, approx. 30 minutes)						
08-PC3-072-m01					and Quantum Chemistry				
	ECTS 6	Duratior		1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Courses			· ·	ion on SWS (weekly contact hours) and course lang	guage available)	·		
	Method of asse			n examination (90 n			_		
	other prerequis	sites	Registration for assessment: Yes, as specified.						

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08-TC-072-m01	Theoretical Models in Chemistry									
	ECTS	3	Duratio	n	1 semester	Method of grading	g numerical grade	Modul level	undergraduate	
	Course	S		V + Ü	(no information on	SWS (weekly contac	ct hours) and course langu	age available)		
	Method of assessment				a) 1 to 3 written examinations (1 written examination: 90 minutes; 2 written examinations: 60 or 90 minutes each; 3 written examinations: 60 minutes each) or b) oral examination in groups (groups of 2, approx. 30 minutes)					
Application-orient	ed Subje	ect Geog	raphy (39	; ECTS	credits)					
Application-orient	ed Subje	ct Geog	raphy Co	mpuls	ory Electives 1 (15 E	CTS credits)				
09-HG1-072-m01	Genera	l Huma	n Geogra	phy						
	ECTS	15	Duratio	n	1 semester	Method of grading	g numerical grade	Modul level	undergraduate	
	Metho	d of ass	essment	Asses stated Asses the Go Asses	09-HG1-1-072: V + 09-HG1-2-072: V + 09-HG1-3-072: V + ssment in this module d otherwise, succes ssment in module c eography of cities, f 5 ECTS, Method of written examination ssment in module c 5 ECTS, Method of written examination ssment in module c lation Geography	 T (no information of T (no information of T (no information of T (no information of ule comprises the as ssful completion of the component og-HG1-1 towns and villages f grading: numerical on (45 minutes) component og-HG1-2 f grading: numerical on (45 minutes) component og-HG1-3 f grading: numerical 	n SWS (weekly contact hou n SWS (weekly contact hou n SWS (weekly contact hou sessments in the individu he module will require suc -072: Introduction to the G grade 2-072: Introduction to Econ grade 3-072: Introduction to Socia	urs) and course langu urs) and course langu urs) and course langu al module componen cessful completion of Geography of cities, to nomic Geography Intro	age available)	

09-PG1-072-m01	Genera	al Physi	cal Geogr	aphy						
	ECTS	15	Duratio	1 1 semester	Method of gradin	g numerical grade	Modul level	undergraduate		
	Course	!S		 09-PG1-1-072: \ 09-PG1-2-072: \ 	/ + T (no information o V + T (no information o	n SWS (weekly contact on SWS (weekly contact	rses will be listed separate hours) and course langua hours) and course langua hours) and course langua	age available)		
	Metho	d of ass	sessment					s as specified below. Unless all individual assessments.		
				Physical Geography 1 5 ECTS, Method written examina Assessment in module sical Geography 2 (Ear 5 ECTS, Method written examina Other prerequis Assessment in module Physical Geography 3 5 ECTS, Method written examina	(Earth System: Endoge d of grading: numerica ation (45 minutes) e component og-PG1-: rth System: Climate Sy d of grading: numerica ation (45 minutes) sites: Registration for a e component og-PG1-: (Earth System: Endoge d of grading: numerica ation (45 minutes)	enic Dynamics) l grade 2-072: General Physica (stem) l grade assessment: Yes, as sp 3-072: General Physical enic Dynamics)	l Geography 2 (Earth Syste ecified. l Geography 3 (Earth Syste	m: Endogenic Dynamics) General em: Climate System) General Phy- em: Endogenic Dynamics) General		
	<u> </u>	orerequi		By way of exception, additional prerequisites are listed in the section on assessments.						
Application-orient	ed Subject Geography Compulsory Electives 2 (10 ECTS credits)									
09-KART-072-m01	Cartog	raphy a	and Geoinf	ormation						
	ECTS	10	Duratio	n 1 semester	Method of gradin	g numerical grade	Modul level	undergraduate		
	Courses Method of assessment			• 09-KART-1-072:	V + T (no information	on SWS (weekly contac	rses will be listed separate ct hours) and course langu ours) and course language			
								s as specified below. Unless all individual assessments.		
				 5 ECTS, Method written examinatoral), weighted Assessment in module 5 ECTS, Method 	l of grading: numerica ation (approx. 75 min l 1:1 e component 09-KART l of grading: numerica	l grade utes) or practice work (- 2-072: Geographical II l grade	nd Geodata Cartography ar (creating approx. 3 maps nformation Systems (GIS) leted in approx. 30 hours)	nd Geodata or diagrams, approx. 30 hours		

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09-FERN-072-m01											
	ECTS	10	Duration	n 1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		• 09-FERN-1-072: V	+ T (no information or	. Information on courses will b n SWS (weekly contact hours) a n SWS (weekly contact hours) a	nd course langu				
	Method	d of ass	essment			essments in the individual mod e module will require successfu					
				Remote Sensing • 5 ECTS, Method of • written examination Assessment in module of sing in Geography	grading: numerical g on (45 minutes) omponent o9-FERN-2 grading: numerical g	rade - 072: Application of Remote Se		sing Introduction to Geographical phy Application of Remote Sen-			
Application-oriente	ed Subje	ct Geog	graphy Co	mpulsory Electives 3 (10 E	CTS credits)						
09-PG2-072-m01	Special Problems of Physical Geography										
	ECTS 10 Duration			n 1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		• 09-PG2-1-072: V (I	no information on SW	s. Information on courses will b S (weekly contact hours) and c 'S (weekly contact hours) and c	ourse language				
	Methoo	d of ass	essment			essments in the individual mod e module will require successfi					
				 Assessment in module component og-PG2-1-072: Special Problems of Physical Geography 1 (Earth System: Man and environment) 5 ECTS, Method of grading: numerical grade written examination (approx. 45 minutes) Assessment in module component og-PG2-2-072: Special Problems of Physical Geography 2 (Earth System: Man and environment) 5 ECTS, Method of grading: numerical grade presentation (approx. 30 minutes) with written elaboration (approx. 20 pages), weighted 1:1 							
	Module comple		essfully	two module components	of 09-PG1, 09-KART,	09-FERN, 09-STAT					

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09-PG3-072-m01	Applied Physical Geography										
	ECTS	10	Duratio	ı	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		This n	09-PG3-1-072: S (n	o information on SWS	. Information on courses will be S (weekly contact hours) and co S (weekly contact hours) and co	ourse language			
	Method	d of asso	essment	stated	d otherwise, success sement in module co 5 ECTS, Method of a	sful completion of the mponent og-PG3-1-0 grading: numerical gr	essments in the individual mod e module will require successfu 972: Project Seminar: Establishi rade elaboration (20 pages), weighte	l completion of ng Current Stat	all individual assessments.		
				•	5 ECTS, Method of project report (20 p	mponent 09-PG3-2-0 grading: numerical groages)	072: Project Seminar: Data Eval		sualisation and Presentation		
09-MT1-072-m01		cquisitio	on and Pr	ocessing in Physical Geography							
	ECTS 5 Duratio				1 semester	Method of grading	•	Modul level	undergraduate		
	Courses			S (no information on SWS (weekly contact hours) and course language available)							
	Method of assessment			presentation (15 minutes) with written elaboration (15 pages), weighted 1:1							
09-MT3-072-m01	Working Methods: Solid Earth System										
	ECTS 10 Duration				1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		 This module comprises 2 module components. Information on courses will be listed separately for each module component. o9-MT3-1-072: S (no information on SWS (weekly contact hours) and course language available) o9-MT3-2-072: Ü (no information on SWS (weekly contact hours) and course language available) 							
	Method of assessment			stated	d otherwise, success	sful completion of the	essments in the individual mod e module will require successfu	l completion of			
				 Assessment in module component o9-MT3-1-072: Mineral an Rock Identification 5 ECTS, Method of grading: numerical grade written or oral examination of one candidate each (30 minutes each) Assessment in module component o9-MT3-2-072: Geological Maps and Structures 5 ECTS, Method of grading: numerical grade written or oral examination of one candidate each (30 minutes each) or term paper (approx. 20 pages) 							

09-MT5-072-m01	Workin	g Meth	ods of Ph	ysical Geography						
	ECTS	10	Duration	n 1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		 This module comprises 2 module components. Information on courses will be listed separately for each module component. o9-MT5-1-072: P (no information on SWS (weekly contact hours) and course language available) o9-MT5-2-072: S (no information on SWS (weekly contact hours) and course language available) 						
	Method	l of ass	essment			essments in the individual mod e module will require successfu				
				Measuring 5 ECTS, Method of placement report on technical cours Other prerequisite Assessment in module co 5 ECTS, Method of presentation of pr	grading: numerical g / fieldwork report / re e (approx. 15 pages) s: A basic knowledge omponent og-MT5-2- grading: numerical g oject (approx. 30 min	port on practical training / repo of inorganic chemistry and phy 072: Data management, -analys	ort on practical or rsics is recomm sis and -interpre	course / project report / report ended. etation s); weighted 1:1		
	other p			, , , ,	itional prerequisites	are listed in the section on asse	essments.			
09-HG2-072-m01	Special Issues of Human Geography									
	ECTS	10	Duration		Method of grading	•	Modul level	undergraduate		
	Course	S		 This module comprises 2 module components. Information on courses will be listed separately for each module component. o9-HG2-1-072: S (no information on SWS (weekly contact hours) and course language available) o9-HG2-2-072: S (no information on SWS (weekly contact hours) and course language available) 						
	Method of assessment					essments in the individual mod e module will require successfu				
				 Assessment in module component og-HG2-1-o72: Special issues of Human Geography 1 5 ECTS, Method of grading: numerical grade presentation (approx. 30 minutes) with written elaboration (approx. 20 pages), weighted 1:1 Assessment in module component og-HG2-2-o72: Special issues of Human Geography 2 5 ECTS, Method of grading: numerical grade presentation (approx. 30 minutes) with written elaboration (approx. 20 pages), weighted 1:1 						
	Module comple		essfully	two module components of 09-HG1						

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09-HG3-072-m01	Applied	l Huma	n Geograp	ohy	,	_					
	ECTS	10	Duratior	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses	5		•	 This module comprises 2 module components. Information on courses will be listed separately for each module component. o9-HG3-1-072: S (no information on SWS (weekly contact hours) and course language available) o9-HG3-2-072: S (no information on SWS (weekly contact hours) and course language available) 						
	Method	l of ass	essment		Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.						
				 Assessment in module component 09-HG3-1-072: Project oriented Seminar 1 for Applied Human Geography 5 ECTS, Method of grading: numerical grade presentation (approx. 30 minutes) with written elaboration (approx. 20 pages), weighted 1:1 Assessment in module component 09-HG3-2-072: Project oriented Seminar 2 for Applied Human Geography 5 ECTS, Method of grading: numerical grade 5 ECTS, Method of grading: numerical grade presentation (approx. 30 minutes) with written elaboration (approx. 20 pages), weighted 1:1 							
09-MT2-072-m01	Theorie	es and A	Nethodola	ogy in l	y in Human Geography						
	ECTS 5 Duratio			n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses	Courses			S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment			writte	n examination (45 r	ninutes) and present	ation (approx. 20 minutes), wei	ghted 1:1			
09-MT4-072-m01	Quantitative and Qualitative Regional Analysis										
	ECTS 10 Duratio		n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	S		 This module comprises 2 module components. Information on courses will be listed separately for each module component. o9-MT4-1-072: S (no information on SWS (weekly contact hours) and course language available) o9-MT4-2-072: S (no information on SWS (weekly contact hours) and course language available) 							
							essments in the individual mod e module will require successfu				
				 Assessment in module component og-MT4-1-072: Quantitative Regional Analysis 5 ECTS, Method of grading: numerical grade presentation (30 minutes) with written elaboration (approx. 20 pages), weighted 1:1 Assessment in module component og-MT4-2-072: Qualitative Regional Analysis 5 ECTS, Method of grading: numerical grade presentation (30 minutes) with written elaboration (approx. 20 pages), weighted 1:1 							
	Module comple		essfully	09-M1	Γ2 as well as one mo	odule component of r	modules o9-KART and o9-STAT (each			

09-MT6-072-m01	Metho	ds of Pla	anning in	Huma	n Geography					
	ECTS	10	Duration	n	1 semester	Method of gra	ding numerical grade		Modul level	undergraduate
	Course	S		•	09-MT6-1-072: S	(no information of	nents. Information on co n SWS (weekly contact on SWS (weekly contact	hours) and co	ourse language	
	Methoo	d of ass	essment							ts as specified below. Unless all individual assessments.
				 Assessment in module component og-MT6-1-072: Methods of Planning in Human Geography 1 5 ECTS, Method of grading: numerical grade a) presentation (approx. 25 minutes) with written elaboration (approx. 12 pages), weighted 1:1 or b) term paper (approx. 20 pages) or c) several small assessments (total length/expenditure of time comparable to a) and/or b)), weighted 1:1 Assessment in module component og-MT6-2-072: Methods of Planning in Human Geography 2 5 ECTS, Method of grading: numerical grade a) presentation (approx. 25 minutes) with written elaboration (approx. 12 pages), weighted 1:1 or b) term paper (approx. 20 pages) or c) several small assessments (total length/expenditure of time comparable to a) and/or b)), weighted 1:1 						
	comple	eted	essfully	09-MT2 as well as one module component of modules 09-KART and 09-STAT each						
Application-orient		-	•			<u> </u>	<u>```</u>			
Application-orient			•		ompulsory Elective	es (35 ECTS credit	s)			
10-l-lÜ-072-m01	Information transmission									· · · · ·
	ECTS	8	Duration		1 semester	9	3		Modul level	undergraduate
	Course	-			-		ntact hours) and course		-	
	Methoo	d of ass	essment	written examination (80 minutes) or oral examination (one candidate each: 20 minutes, groups of 2: 30 minutes, groups of 3: 40 minutes)						
10-I-RAL-072-m01	Digital	comput	ter systen	ns						
	ECTS	8	Duration	n	1 semester	Method of gra	ding numerical grade		Modul level	undergraduate
	Course	S		V + Ü	(no information or	n SWS (weekly co	ntact hours) and course	e language av	ailable)	<u>^</u>
	Methoo	d of ass	essment		en examination (80 inutes)	o minutes) or oral	examination (one candi	idate each: 2	o minutes, grou	ups of 2: 30 minutes, groups of 3:
10-I-TI-072-m01	Theore	tical inf	formatics							
	ECTS	8	Duration	n	1 semester	Method of gra	ding numerical grade		Modul level	undergraduate
	Course	S		V + Ü	(no information or	-	ntact hours) and course	e language av	ailable)	
	Method	d of ass	sessment	writte						ups of 2: 30 minutes, groups of 3:

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10-I-ADS-072-m01	Algorit	thm and	data stru	ctures						
	ECTS	8	Duration	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Course	es	_	V + Ü	(no information on	SWS (weekly contact	hours) and course language av	vailable)		
	Metho	d of asso	essment		n examination (80 r inutes)	ninutes) or oral exam	ination (one candidate each: 2	o minutes, grou	ups of 2: 30 minutes, groups of 3:	
10-I-AR-072-m01	Autom	ation an	d control	techn	ology					
	ECTS	8	Duration	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Course	es		V + Ü	(no information on	SWS (weekly contact	hours) and course language av	vailable)		
	Metho	d of ass	essment	writte	n examination (80 r	ninutes)				
10-I-DB-072-m01	Data b	ases								
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Course	es		V + Ü	(no information on SWS (weekly contact hours) and course language available)					
	Method of assessment written examination (50 minutes) or oral examination (one candidate each: 15 minutes, groups of 2: 20 minutes, groups 25 minutes)							ps of 2: 20 minutes, groups of 3:		
10-l-GT-072-m01	Graph	theoreti	cal conce	pts an	d algorithms					
	ECTS	8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Course	es		V + Ü	(no information on	SWS (weekly contact	hours) and course language av	vailable)		
	Metho	d of ass	essment		n examination (80 r inutes)	ninutes) or oral exam	ination (one candidate each: 2	o minutes, grou	ups of 2: 30 minutes, groups of 3:	
10-I-KT-072-m01	Theory	of com	plexity							
	ECTS	8	Duration	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Course	es		V + Ü	(no information on	SWS (weekly contact	hours) and course language av	vailable)		
	Metho	d of ass	essment		n examination (80 r nutes)	ninutes) or oral exam	ination (one candidate each: 2	o minutes, grou	ups of 2: 30 minutes, groups of 3:	
10-l-LOG-072-m01	Logic f	for inforr	natics							
	ECTS	5	Duratio		1 semester	Method of grading	_	Modul level	undergraduate	
	Course	es		V + Ü	(no information on	SWS (weekly contact	hours) and course language av	vailable)		
	Metho	Method of assessment			n examination (50 r nutes)	ninutes) or oral exam	ination (one candidate each: 1	5 minutes, grou	ps of 2: 20 minutes, groups of 3:	
10-I-00P-072-m01	Object	oriente	d prograr	nming						
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Course	es			-		hours) and course language av	-		
	Metho	d of ass	essment		n examination (50 r nutes)	ninutes) or oral exam	ination (one candidate each: 1	5 minutes, grou	ps of 2: 20 minutes, groups of 3:	

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10-I-PP-072-m01	Practic	Practical course in programming									
	ECTS	9	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Course	25		P (no	P (no information on SWS (weekly contact hours) and course language available)						
	Metho	d of ass	essment						on: written examination (60 to 90		
	_			minut	es) or oral examinat	ion (one candidate e	ach: 10 to 15 minutes, groups o	of 2: 20 minutes	s, groups of 3: 30 minutes)		
10-I-RAK-072-m01		-	itecture		i			1			
	ECTS	5	Duration		1 semester	Method of grading		Modul level	undergraduate		
	Course				-		hours) and course language av	-			
	Metho	d of ass	essment		n examination (80 m nutes)	ninutes) or oral exam	ination (one candidate each: 2	o minutes, grou	ips of 2: 30 minutes, groups of 3:		
10-I-RK-072-m01	Compu	iter netv	vorks and	comm	unication systems						
	ECTS	8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	es		V + Ü	(no information on S	SWS (weekly contact	hours) and course language av	ailable)			
	Metho	d of ass	essment		n examination (80 m nutes)	ninutes) or oral exam	ination (one candidate each: 2	o minutes, grou	ips of 2: 30 minutes, groups of 3:		
10-I-ST-072-m01	Softwa	re techi	nology								
	ECTS	8	Duratio		1 semester	Method of grading		Modul level	undergraduate		
	Course	es		V + Ü	(no information on S	WS (weekly contact	hours) and course language av	ailable)			
	Metho	d of ass	essment		n examination (80 m nutes)	ninutes) or oral exam	ination (one candidate each: 2	o minutes, grou	ips of 2: 30 minutes, groups of 3:		
10-I-SWP-072-m01	Practic	al cours	se in softv	vare							
	ECTS	10	Duration	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Course	es		P (no	information on SWS	(weekly contact hou	rs) and course language availa	ble)			
	Metho	d of ass	essment						ne corresponding solution com-		
									of contributions made by the indi- al presentation (10 to 15 minutes		
				per gr		onware and project	documentation as specified in	assignment, mi			
10-I-WMS-072-m01	Knowl	edge ma	nagemen	t syste	ems and data mining	5					
	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	es		V + Ü	+ Ü (no information of	on SWS (weekly cont	act hours) and course languag	e available)			
	Metho	d of ass	essment		n examination (80 m nutes)	ninutes) or oral exam	ination (one candidate each: 2	o minutes, grou	ips of 2: 30 minutes, groups of 3:		

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Application-oriente	ed Subject	t Philo	sophy (35	; ECTS	credits)					
Application-oriente	ed Subject	t Philo	sophy Co	mpulso	ory Courses (20 EC	TS credits)				
06-B-P1-072-m01	Principle	es of P	hilosophy	/						
	ECTS :	10	Duratior	۱ I	1 semester	Method of gradi	ng numerical grade		Modul level	undergraduate
	Courses			•	06-B-P1-1-072: Ü 06-B-P1-2-072: Ü	(no information on (no information on	nts. Information on co SWS (weekly contact l SWS (weekly contact o on SWS (weekly cont	hours) and c hours) and c	ourse language ourse language	e available)
	Method of assessment Assessment in this module comprises the assessments in the individual module components as specified below. Unles stated otherwise, successful completion of the module will require successful completion of all individual assessments. Assessment in module component o6-B-P1-1-072: Introduction to academic working techniques 2 ECTS, Method of grading: (not) successfully completed • 2 ECTS, Method of grading: (not) successfully completed • 2 ECTS, Method of grading: (not) successfully completed • 3 ECTS, Method of grading: (not) successfully completed • 3 ECTS, Method of grading: (not) successfully completed • 3 ECTS, Method of grading: (not) successfully completed • 3 ECTS, Method of grading: (not) successfully completed • 3 ECTS, Method of grading: (not) successfully completed • 3 ECTS, Method of grading: (not) successfully completed • 9 Sectors, Method of grading: (not) successfully completed • 9 ECTS, Method of grading: (not) successfully completed • 9 ECTS, Method of grading: numerical grade • 0 Fhilosophy: historical epochs, main works, authors • 5 ECTS, Method of grading: numerical grade • 0 ral examination (approx. 25 minutes)							all individual assessments. Jues minutes each)		
06-B-P2-072-m01	<u></u>	ohy an	d the scie	nces						
	ECTS :	10	Duratior	า	1 semester	Method of gradi	ng numerical grade		Modul level	undergraduate
	Courses			•	06-B-P2-1-072: S	(no information on	nts. Information on co SWS (weekly contact SWS (weekly contact	hours) and c	ourse language	
	Method of assessment			Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments. Assessment in module component o6-B-P2-1-072: Philosophical principles of arts and humanities • 5 ECTS, Method of grading: numerical grade • written examination (approx. 120 minutes) Assessment in module component o6-B-P2-2-072: Philosophical principles of natural sciences and technology • 5 ECTS, Method of grading: numerical grade • written examination (approx. 120 minutes)						
Application-oriente	ed Subject	t Philo	sophy Co	mpulso	ory Electives (15 E	CTS credits)				
06-B-P3-072-m01	Theoreti	cal ph	ilosophy							
	ECTS :	10	Duratior		1 semester	-	ng numerical grade		Modul level	undergraduate
	Courses						kly contact hours) and	course lang	uage available)	
	Method	ofass	essment	writter	n examination (ap	prox. 180 minutes)				

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06-B-P4-072-m01	Practical Philosophy								
	ECTS 10	Duration	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses		Ü + Ü	+ S + S (no informat	tion on SWS (weekly o	contact hours) and course lan	guage available)		
	Method of ass	essment	writte	n examination (app	rox. 180 minutes)				
06-B-P5-072-m01	History of phil	osophy							
	ECTS 10	Duration		1 semester	Method of grading	_	Modul level	undergraduate	
	Courses		Ü + Ü	+ S + S (no informat	tion on SWS (weekly o	contact hours) and course lan	guage available)		
	Method of ass	essment	writte	n examination (app	rox. 180 minutes)				
06-B-P6-072-m01	Issue of resear	rch in phil	osoph	у					
	ECTS 10	Duration		1 semester	Method of grading	-	Modul level	undergraduate	
	Courses		V + S ·	+ S (no information	on SWS (weekly cont	act hours) and course languag	ge available)		
	Method of ass	essment	term p	oaper (approx. 12 pa	ages)				
06-B-W1-072-m01	Text analysis:	Ancient P	hiloso	phy					
	ECTS 5	Duration		1 semester	Method of grading		Modul level	undergraduate	
	Courses				•	rs) and course language avail	able)		
	Method of ass	essment	term p	oaper (approx. 12 pa	ages)				
06-B-W2-072-m01	Text Analysis:	Medieval	Philos	ophy					
	ECTS 5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses		S (no	information on SWS	6 (weekly contact hou	rs) and course language avail	able)		
	Method of ass	essment	term p	oaper (approx. 12 pa	ages)				
06-B-W3-072-m01	Text analysis:	modern p	hiloso	phy					
	ECTS 5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses		S (no	information on SWS	6 (weekly contact hou	rs) and course language avail	able)		
	Method of ass	essment	term p	oaper (approx. 12 pa	ages)				
06-B-W4-072-m01	Text analysis:	contempo	orary p	hilosophy					
	ECTS 5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses		S (no	information on SWS	6 (weekly contact hou	rs) and course language avail	able)		
				oaper (approx. 12 pa	-				
06-B-W5-072-m01		es of the	oretica	l philosophy: metap	physics and episteme	ology			
	ECTS 5	Duration	l	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses		S (no	information on SWS	6 (weekly contact hou	rs) and course language avail	able)		
	Method of ass	essment	term p	oaper (approx. 12 pa	ages)				
06-B-W6-072-m01	Specific discip	lines of t	neoreti	cal philosophy					
	ECTS 5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses		S (no	information on SWS	6 (weekly contact hou	rs) and course language avail	able)		
	Method of ass	essment	term p	oaper (approx. 12 pa	ages)				
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06-B-W7-072-m01		ines of pra	ctical p	tical philosophy: ethics and theory of action						
	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses		S (no	information on SWS	6 (weekly contact hours) and course language availa	able)				
	Method of as	sessment	term	paper (approx. 12 pa	ages)					
06-B-W8-072-m01	Specific disciplines of practical philosophy									
	ECTS 5	Duratio		1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses				(weekly contact hours) and course language availa	able)				
				paper (approx. 12 pa	ages)					
06-B-W9-072-m01	Problems of (Older Philo	sophy	: Ancient/Medieval						
	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses		S (no	information on SWS	6 (weekly contact hours) and course language availa	able)				
	Method of assessment		oral e	ral examination (approx. 25 minutes)						
06-B-W10-072-	Problems of I	Modern/Co	ontemp	orary Philosophy						
m01	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses		S (no	information on SWS	6 (weekly contact hours) and course language availa	able)				
	Method of assessment		oral examination (approx. 25 minutes)							
06-B-W11-072-m01	Problems of 1	Theoretica	Philosophy							
	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses		S (no	information on SWS	6 (weekly contact hours) and course language availa	able)				
	Method of as	sessment	oral e	oral examination (approx. 25 minutes)						
06-B-W12-072-	Problems of I	Practical P	hilosop	ohy						
m01	ECTS 5	Duratio		1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses		S (no information on SWS (weekly contact hours) and course language available)							
	Method of as	sessment	oral examination (approx. 25 minutes)							
Application-oriente	ed Subject Phy	sics (35 EC	TS cre	dits)						
Application-oriente	Application-oriented Subject Physics Compulsory Courses (16 ECTS credits)									
11-ENNF1-062-m01	Introduction	to Physics	Part 1	for students of Phys	ics Related Minor Subjects					
	ECTS 7	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses		V + Ü	(no information on S	SWS (weekly contact hours) and course language av	vailable)	•			
	Method of as	sessment	writte	n examination (app	rox. 120 minutes)					
	Participants a cation of place		Only as part of pool of general key skills (ASQ): 20 places. Places will be allocated by lot.							

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11-ENNE2-062-m01	Introdu	Introduction to Physics Part 2 for students of Physics Related Minor Subjects									
					1 semester	Method of grading	•	Modul level	undergraduate		
	Courses		V + Ü	/ + Ü (no information on SWS (weekly contact hours) and course language available)							
	Method of assessment			writte	written examination (approx. 120 minutes)						
	Participants and allo- cation of places			Only as part of pool of general key skills (ASQ): 20 places. Places will be allocated by lot.							
11-PFR-072-m01	Measu	Measurements and Data Analysis									
	ECTS	2	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			V + Ü (no information on SWS (weekly contact hours) and course language available)							
	Method of assessment			written examination (approx. 120 minutes)							
Application-oriente	ed Subject Physics Compulsory Electives 1 (3 ECTS credits)										
11-PNNF-062-m01	Physic	s Labora	atory Cou	rse for students of Physics Related Minor Subjects							
	ECTS	3	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Courses			P (no information on SWS (weekly contact hours) and course language available)							
	Method of assessment			a) ora	a) oral test (approx. 15 minutes) during experiment and b) ungraded written examination (approx. 90 minutes)						
	Participants and allo- cation of places		Only a	Only as part of pool of general key skills (ASQ): 15 places. Places will be allocated by lot.							

Testat (exam) is passed. b) Talk (with discussion) to test the students' understanding of the physics-relation	icity, BAM): P (2									
weekly contact hours)Klassische Physik (Classical Physics, KLP): P (2 weekly contact hours)Elektrizitätslehre und Schaltungen (Electricity and Circuits, ELS): P (2 weekly contact hours)Wellenoptik (Physical Optics, WOP): P (2 weekly contact hours)Atom- und Kernphysik (Atomic and Nuclear Physics, AKP): P (2 weekly contact hours)Computer und Messtechnik (Computers and Measurement Technology, CMT): P (2 weekly contact hours)Method of assessmentThis module has the following assessment components1. Lab course in part 1: a) Preparing, performing and evaluating the experiments will be considered success Testat (exam) is passed. b) Talk (with discussion) to test the students' understanding of the physics-relation										
Method of assessment This module has the following assessment components 1. Lab course in part 1: a) Preparing, performing and evaluating the experiments will be considered success Testat (exam) is passed. b) Talk (with discussion) to test the students' understanding of the physics-relation										
 2. Lab course in part 2: a) Preparing, performing and evaluating the experiments will be considered success a Testat (exam) is passed. b) Talk (with discussion) to test the students' understanding of the physics-relative course (approx. 30 minutes). Students must register for assessment components 1 and 2 online (registration deadline to be announced). 	 This module has the following assessment components 1. Lab course in part 1: a) Preparing, performing and evaluating the experiments will be considered successfully completed if a Testat (exam) is passed. b) Talk (with discussion) to test the students' understanding of the physics-related contents of the course (approx. 30 minutes). 2. Lab course in part 2: a) Preparing, performing and evaluating the experiments will be considered successfully completed if a Testat (exam) is passed. b) Talk (with discussion) to test the students' understanding of the physics-related contents of the course (approx. 30 minutes). 2. Lab course in part 2: a) Preparing, performing and evaluating the experiments will be considered successfully completed if a Testat (exam) is passed. b) Talk (with discussion) to test the students' understanding of the physics-related contents of the course (approx. 30 minutes). Students must register for assessment components 1 and 2 online (registration deadline to be announced). Students will be offered one opportunity to retake element a) and/or element b). To pass an assessment component, they must pass both elements a) and b). To pass this module, students must successfully complete two out of the six courses. 									
	Module 11-PFR recommended.									
Application-oriented Subject Physics Compulsory Electives 2 (16 ECTS credits)										
11-E3-072-m01 Experimental Physics 3 (Optics, Quantum Phenomena, Introduction Atomic Physics)										
ECTS 8 Duration 1 semester Method of grading numerical grade Modul level undergradua	ate									
Courses V + Ü (no information on SWS (weekly contact hours) and course language available)										
Method of assessment written examination (approx. 120 minutes)										
11-E4-072-mo1 Experimental Physics 4 (Introduction to Solid State Physics)										
ECTS 8 Duration 1 semester Method of grading numerical grade Modul level undergradua	ate									
Courses V + Ü (no information on SWS (weekly contact hours) and course language available)										
Method of assessment written examination (approx. 120 minutes)										
11-T1-072-mo1 Theoretical Physics 1 (Theoretical Mechanics)										
ECTS 8 Duration 1 semester Method of grading numerical grade Modul level undergradua	ate									
Courses V + Ü (no information on SWS (weekly contact hours) and course language available)										
Method of assessment written examination (approx. 120 minutes)										

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11-T2-072-m01	Theoretical Physics 2 (Theoretical Electrostatics and Electrodynamics)										
	ECTS 8	Duratior	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			·	, ,	hours) and course language	available)				
	Method of ass	essment	writte	n examination (app	prox. 120 minutes)						
11-T3-072-m01	Theoretical Ph	ysics 3 (T	heoret	ical Quantum Mech	nanics)						
	ECTS 8	Duratior	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V+Ü	(no information on	SWS (weekly contact	hours) and course language	available)				
	Method of ass	essment	writte	n examination (app	prox. 120 minutes)						
11-T4-072-m01	Theoretical Physics 4 (Theoretical Thermodynamics and Statistics)										
	ECTS 8	Duratior	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V + Ü	(no information on	SWS (weekly contact	hours) and course language	available)				
	Method of ass	essment	writte	n examination (app	prox. 120 minutes)						
Application-orient	ed Subject Busi	ness Mana	ageme	nt and Economics (35 ECTS credits)						
Application-orient	ed Subject Busi	ness Mana	ageme	nt and Economics C	Compulsory Courses (30 ECTS credits)					
12-IntUR-G-072-	Managerial Ac	counting									
m01	ECTS 5	Duratior	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V + Ü	(no information on	SWS (weekly contact	hours) and course language	available)				
	Method of ass	essment	writte	n examination (app	prox. 60 minutes)						
12-ExtUR-G-072-	Financial Accounting										
m01	ECTS 5	Duratior	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V+Ü	(no information on	SWS (weekly contact	hours) and course language	available)				
	Method of assessment written examination (approx. 60 minutes)										
12-EBWL-G-072-	Introduction to Business Administration										
m01	ECTS 5	Duratior	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V + Ü	(no information on	SWS (weekly contact	hours) and course language	available)				
	Method of assessment written examination (approx. 60 minutes)										
12-EVWL-G-072-	Introduction to	o Economi	cs								
m01	ECTS 5	Duratior	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V + Ü	(no information on	SWS (weekly contact	hours) and course language	available)				
	Method of ass	essment	writte	n examination (app	prox. 60 minutes)						
12-Mak1-G-072-	Macroeconom	ics 1									
m01	ECTS 5	Duratior	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V + Ü	(no information on	SWS (weekly contact	hours) and course language	available)				
	Method of ass	essment	writter	n examination (app	orox. 60 minutes)						

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12-Mik1-G-072-	Microeconomics 1										
m01	ECTS 5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	_	V + Ü	(no information on	SWS (weekly contact	hours) and course langu	lage available)				
	Method of ass	sessment	writte	n examination (app	rox. 60 minutes)						
Application-oriented Subject Business Management and Economics Compulsory Electives (5 ECTS credits)											
12-Mark-G-072-	Introduction to Market-Oriented Management										
m01	ECTS 5	Duratio	ı	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			-		hours) and course langu	lage available)				
				n examination (app							
12-BPL-G-072-m01		uction and	Opera	tions Management.	An Introduction						
	ECTS 5	Duratio		1 semester	Method of grading		Modul level	undergraduate			
	Courses			-		hours) and course langu	lage available)	_			
				n examination (app	rox. 60 minutes)						
12-I&F-G-072-m01	Investment a	nd Finance	. An In	troduction				<u>.</u>			
	ECTS 5	Duratio		1 semester	Method of grading	-	Modul level	undergraduate			
	Courses		V + Ü	(no information on	SWS (weekly contact	hours) and course langu	lage available)				
	Method of as	sessment	writte	n examination (app	rox. 60 minutes)						
12-Mak2-G-072-	Macroeconon	nics 2									
m01	ECTS 5	Duratio		1 semester	Method of grading		Modul level	undergraduate			
	Courses			-		hours) and course langu	lage available)				
	Method of ass	sessment	writte	n examination (app	rox. 60 minutes)						
12-Mik2-G-072-	Microeconom	ics 2			<u>.</u>		<u>.</u>				
m01	ECTS 5	Duration		1 semester	Method of grading	_	Modul level	undergraduate			
	Courses		V + Ü	(no information on	SWS (weekly contact	hours) and course langu	lage available)				
	Method of assessment written examination (approx. 60 minutes)										
12-WiPo-G-072-	Introduction t	o Economi	c Polic	y							
m01	ECTS 5	Duration		1 semester	Method of grading		Modul level	undergraduate			
	Courses					hours) and course langu	lage available)				
	Method of ass	sessment	writte	n examination (app	rox. 60 minutes)						
Thesis (10 ECTS cre	edits)										
10-M-BAM-072-	Thesis Mathe	matics (Ba	chelor	Thesis)							
m01	ECTS 10	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		no co	urses assigned							
	Method of ass	sessment		n thesis		1 11 11					
		:-:+				greed upon with the exa	miner				
	other prerequ	Isites	Regis	tration for assessme	ent: as specified.						
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Subject-specific K	ey Skills	(15 ECT	S credits)									
10-M-VKM-072-	Prepar	Preparatory Course Mathematics										
m01	ECTS	ECTS 2 Duratio		ı	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Course	S		V + T (no information on S	WS (weekly contact l	nours) and course language ava	ailable)				
	Metho	Method of assessment			completion of project assignments (to be specified at the beginning of the course)							
10-M-PRG-072-	Progra	Programming Course for Mathematics and other students										
m01	ECTS	3	Duratio	ı	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses			P (no information on SWS (weekly contact hours) and course language available)								
	Method of assessment		project in the form of programming exercises (expenditure of time as specified at the beginning of the course)									
10-M-COM-072-	Computeroriented Mathematics											
m01	ECTS	ECTS 3 Duratio		1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses			V + Ü (no information on SWS (weekly contact hours) and course language available)								
	Method of assessment project in the form of programming exercises (expenditure of time as specified at the beginning of the course)								ing of the course)			
10-M-BAK-072-	Defens	e of Bac	helor The	esis in l	sis in Mathematics							
m01	ECTS	2	Duratio	ı	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		A (no	information on SWS	(weekly contact hou	rs) and course language availa	ble)				
	Method	d of asse	essment	talk (approx. 15 minutes) with subsequent discussion (approx. 15 minutes)								