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## **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: Faculty of Mathematics and Computer Science Responsible: Institute of Mathematics Examination regulations version: 2023 Examination regulations version: 2023

Abbreviations used:	Course types: $\mathbf{E}$ = field trip, $\mathbf{K}$ = colloquium, $\mathbf{O}$ = conversatorium, $\mathbf{P}$ = placement/lab course, $\mathbf{R}$ = project, $\mathbf{S}$ = seminar, $\mathbf{T}$ = tutorial, $\ddot{\mathbf{U}}$ = exercise, $\mathbf{V}$ = lecture
	Term: <b>SS</b> = summer semester, <b>WS</b> = winter semester
	Methods of grading: <b>NUM</b> = numerical grade, <b>B/NB</b> = (not) successfully completed
	Regulations: <b>(L)ASPO</b> = general academic and examination regulations (for teaching-degree programmes), <b>FSB</b> = subject-specific provisions, <b>SFB</b> = list of modules
	Other: <b>A</b> = thesis, <b>LV</b> = course(s), <b>PL</b> = assessment(s), <b>TN</b> = participants, <b>VL</b> = prerequisite(s)
Conventions for the modules in this SFB:	Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not cre- ditable for bonus.
Information on assessment procedures:	Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the me- thod of assessment to be used in the current semester by two weeks after the start of the course at the latest and will communicate this in the customary manner.
	Should a module comprise more than one graded assessment, all assessments will be equally weighted, unless otherwise stated below.
	Should the assessment comprise several individual assessments, successful completion of the module will require successful completion of all individual assessments.

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

#### ASPO2015

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

## 31-Jan-2023 (2022-81)

### 22-Nov-2023 (2023-102)

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	Dura	ation	(in semesters)	Method of grading	Module level						
	Courses		To be spe	o be specified in the form X (y) with course type X abbreviated as specified above and number of weekly contact hours y								
	Method of as	sessment										
	Only after su completion c		if applica	if applicable								
	Other prereq	uisites	if applica	if applicable								
	Participants and allocati- on of places		i- if applica	if applicable								
	Additional in	formation	if applica	if applicable								
	Referred to in	n LPO I	if applica	ble (examination	regulations for teaching	degree programmes)						

Compulsory Course	es (40 ECTS cr	edits)									
10-M-ANA-Ü-152-	Overview An	alysis									
m01	ECTS 14	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			( (4) + Ü (2)							
	Method of as	sessment		oral examination of one candidate each (20 to 40 minutes)							
				Assessment will have reference to the contents of modules 10-M-ANA1 and 10-M-ANA2. Language of assessment: German and/or English							
10-M-LNA-Ü-152-	Overview Lin	oar Algobr	-								
m01	ECTS 14	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	Duratio		+ Ü (2)	Method of grading	numencai glade	Modulievei	undergraduate			
	Method of as	coccmont			andidate each (20 to	v (o minutes)					
	Method of as	Sessinent	Asses	oral examination of one candidate each (20 to 40 minutes) Assessment will have reference to the contents of modules 10-M-LNA1 and 10-M-LNA2.							
				anguage of assessment: German and/or English							
10-M-VAN-152-m01	Advanced Ar	alysis				-					
	ECTS 7	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			+ Ü (2)							
	Method of as	sessment				utes, usually chosen) or					
					e candidate each (15	to 30 minutes) or to 15 minutes per candidate)					
					: German and/or Eng						
				creditable for bonus							
10-M-SEM-152-	Seminar Mathematics										
m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		S (2)	S (2)							
	Method of as	sessment		talk (60 to 120 minutes)							
				Language of assessment: German and/or English							
	Referred to in		-	I Nr. 3 f)							
Compulsory Electiv	es Mathemat	ics (79 ECT	S credi	ts)							
Subfield Basics of	Analysis (8 EC	TS credits)	)								
10-M-ANA1-152-	Analysis 1										
m01	ECTS 8	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses		V (4) ·	+ Ü (2)				_			
	Method of as	sessment			prox. 90 to 180 minute	es) and written exercises (appr	ox. 12 exercise	sheets with approx. 4 exercises			
			each)		Cormon and lar Fran	lich					
			Langu	lage of assessment	: German and/or Eng	แรก					

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10-M-ANA2-152-	Analysis 2										
m01	ECTS	8	Duratio	า	1 semester	Method of grading (not) successfully completed Modul level undergraduate					
	Course	S		V (4) -	$(4) + \ddot{U}(2)$						
	Method	d of ass	essment		written examination (approx. 90 to 180 minutes) and written exercises (approx. 12 exercise sheets with approx. 4 exercises						
				each) Language of assessment: German and/or English							
Subfield Basics of	Linear A	lgebra (	8 ECTS cr	-							
10-M-LNA1-152-	Linear	Algebra	1								
mo1		8	Duratio	ı	1 semester	Method of grading (not) successfully completed Modul level undergraduate					
	Course	S		V (4) -	(4) + Ü (2)						
	Method	d of ass	essment		n examination (ap	pprox. 90 to 180 minutes) and written exercises (approx. 12 exercise sheets with approx. 4 exercises					
					each)						
10-M-LNA2-152-	Linear	Language of assessment: German and/or English         Algebra 2									
m01		8	Duratio	 1	1 semester	Method of grading (not) successfully completed Modul level undergraduate					
	Course		Duration	' V (4) -		method of glading (not) successfully completed modul level and igraduate					
			essment	<u>, р</u>		pprox. 90 to 180 minutes) and written exercises (approx. 12 exercise sheets with approx. 4 exercises					
	meenoe		cooncil	each)	each)						
				Langu	lage of assessmen	ent: German and/or English					
Subfield Basics of	Applied	Mathem	natics (9 l	ECTS cr	redits)						
10-M-NUM1-152-	Numeri	ical Mat	hematics	CS 1							
m01	ECTS	9	Duration		1 semester	Method of grading (not) successfully completed Modul level undergraduate					
	Course		_	V (4) -							
	Method	d of ass	essment	a) written examination (approx. 90 to 180 minutes, usually chosen) or							
					b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate)						
				Language of assessment: German and/or English							
					able for bonus						
10-M-NUM2-152-			hematics								
m01		9	Duratio		1 semester	Method of grading (not) successfully completed Modul level undergraduate					
	Course	-		V (4) -							
	Method	d of ass	essment			(approx. 90 to 180 minutes, usually chosen) or one candidate each (15 to 30 minutes) or					
						groups (groups of 2, 10 to 15 minutes) of					
				Langu	lage of assessmen	ent: German and/or English					
				credit	able for bonus						

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10-M-ST01-152-	Stocha	itochastics 1											
m01	ECTS	9	Duratior	ו	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate				
	Course	es		V (4) +	/ (4) + Ü (2)								
	Metho	d of asse	essment		a) written examination (approx. 90 to 180 minutes, usually chosen) or								
				b) oral examination of one candidate each (15 to 30 minutes) or									
					c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus								
10-M-ST02-152-	Stochastics 2												
m01	ECTS	9	Duratior	า	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate				
	Course	es		V (4) +	+ Ü (2)			•					
	Metho	d of asse	essment				utes, usually chosen) or						
						e candidate each (15							
					oral examination in groups (groups of 2, 10 to 15 minutes per candidate) nguage of assessment: German and/or English								
					able for bonus		1511						
Subfield Pure Math	ematic	s (9 ECTS	credits)										
10-M-ALG-152-m01	Introd	uction to	Algebra										
	ECTS	9	Duratior	ı	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate				
	Course	es		V (4) +	+ Ü (2)								
	Metho	d of asse	essment				utes, usually chosen) or						
						e candidate each (15							
						: German and/or Engl	to 15 minutes per candidate)						
				credit	able for bonus		1511						
10-M-DGE-152-m01	Introd	uction to	Different	ial Ge	ometry								
	ECTS	9	Duratior	I	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate				
	Course	es	,	V (4) +	+ Ü (2)			A					
	Metho	d of asse	essment				utes, usually chosen) or						
						e candidate each (15							
							to 15 minutes per candidate)						
					uage of assessment: German and/or English essment offered: In the semester in which the course is offered and in the subsequent semester								
					able for bonus								

10-M-DGL-152-m01	Ordina	linary Differential Equations											
	ECTS	9	Duration	۱	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate				
	Course	es		V (4) +	- Ü (2)	•							
	Metho	d of asse	essment		a) written examination (approx. 90 to 180 minutes, usually chosen) or								
						ne candidate each (15							
					c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus								
10-M-FTH-152-m01	Introdu	ntroduction to Complex Analysis											
	ECTS	9	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate				
	Course	es		V (4) +	- Ü (2)								
	Metho	d of asse	essment				ites, usually chosen) or						
						ne candidate each (15							
					) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) anguage of assessment: German and/or English								
					able for bonus		1511						
10-M-GAN-152-	Geometric Analysis												
m01	ECTS 9 Duratio			ו	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate				
	Course	es		V (4) +	- Ü (2)								
	Metho	d of asse	essment										
				b) oral examination of one candidate each (15 to 30 minutes) or									
				c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English									
					able for bonus								
	Referre	ed to in L	.PO I	§ 22    Nr. 3 f)									
10-M-PGE-152-m01	Introdu	uction to	Projectiv	ve Geor	metry								
	ECTS	9	Duration	า	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate				
	Course	es		V (4) +	- Ü (2)			С					
	Metho	d of asse	essment										
				b) oral examination of one candidate each (15 to 30 minutes) or									
				c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate)									
				Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester									
					able for bonus								

10-M-AALG-232-	Applied Algebra													
m01	ECTS	5 9	Duration	ı	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate					
	Cou	rses		V (4) ·	+ Ü (2)			·						
	Met	hod of a	ssessment	b) ora c) ora Langu	a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus									
Subfield Basics Sp	eciali	alization of Mathematics (9 ECTS credits)												
10-M-NUM1-152-	Num	nerical M	athematics	1										
m01	ECTS	5 9	Duration	-	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate					
	Cou	rses		V (4) ·	+ Ü (2)									
	Met	hod of a	ssessment	b) ora c) ora Langu	a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus									
10-M-NUM2-152-	Num	nerical M	athematics	2										
m01	ECTS	5 9	Duration						undergraduate					
	Cou	rses		V (4) ·	+ Ü (2)									
	Met	hod of a	ssessment	a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus										
10-M-ST01-152-	Stoc	hastics	1											
m01	ECTS	5 9	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate					
	Cou	Courses			+ Ü (2)									
	Method of assessment			a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus										

10-M-ST02-152-	Stocha	chastics 2												
m01	ECTS	9	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate					
	Course	S	_	V (4) ·	+ Ü (2)				_					
	Metho	d of ass	essment		a) written examination (approx. 90 to 180 minutes, usually chosen) or									
					b) oral examination of one candidate each (15 to 30 minutes) or									
					c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English									
					able for bonus	. German and/ or Engr	1511							
10-M-OML-232-	Optimi	Optimization for Machine Learning												
m01	ECTS	9	Duration	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate					
	Course	:S		V (4) -					-					
		-			odule taught in: German and/or English									
	Metho	d of ass	essment				ites, usually chosen) or							
						e candidate each (15								
					oral examination in groups (groups of 2, 10 to 15 minutes per candidate) anguage of assessment: German and/or English									
				Asses	Assessment offered: In the semester in which the course is offered and in the subsequent semester									
				credit	able for bonus									
10-M-ALG-152-m01														
	ECTS	9	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate					
	Course			V (4) -										
	Metho	d of ass	essment				ites, usually chosen) or							
					b) oral examination of one candidate each (15 to 30 minutes) or									
					c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English									
				credit	creditable for bonus									
10-M-DGE-152-m01	Introdu	uction to	Differen	tial Ge	ometry									
	ECTS	9	Duration	n	1 semester	Method of grading	(not) successfully completed	d Modul level	undergraduate					
	Course	S		V (4) -	+ Ü (2)									
	Metho	d of ass	essment	a) written examination (approx. 90 to 180 minutes, usually chosen) or										
						e candidate each (15								
				C) Ora	l examination in gro	: German and/or Engl	to 15 minutes per candidate)							
							the course is offered and in th	ne subsequent se	emester					
					able for bonus			,						

10-M-DGL-152-m01	Ordina	ry Differ	ential Eq	uation	5				·		
	ECTS	9	Duratior	า	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Course	S		V (4) +	+ Ü (2)				_		
	Method of assessmenta) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus										
10-M-FTH-152-m01	Introdu	iction to	Complex	Analy	sis				_		
	ECTS	9	Duratior	ו	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Course	S		V (4) +	⊦Ü (2)						
	Method of assessmenta) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus										
10-M-GAN-152-	Geome	tric Ana	lysis								
m01	ECTS	9	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Course	S		V (4) +	+ Ü (2)						
	Methoo	d of asse	essment	a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus							
		d to in L	-	-	Nr. 3 f)						
10-M-DIM-152-m01	Introdu	iction to	Discrete	Mathe	ematics						
	ECTS	9	Duration	า	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Course	S		V (4) +	+ Ü (2)						
	Method of assessment			a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus							

10-M-FAN-152-m01	Introdu	ction to	Function	al Ana	lysis			1				
	ECTS	9	Duration	า	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses	S		V (4) -	- Ü (2)			•				
	Method	l of asse	essment	b) ora c) ora Langu	l examination of one l examination in gro	pprox. 90 to 180 minu e candidate each (15 t ups (groups of 2, 10 t German and/or Engli						
	Referre	d to in L	.PO I	§ 22	§ 22    Nr. 3 f)							
10-M-PAR-152-m01	Introdu	ction to	Partial D	ifferen	ifferential Equations							
	ECTS	9	Duration	۱	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses	5		V (4) -	⊦Ü (2)							
	Method	l of asse	essment	<ul> <li>a) written examination (approx. 90 to 180 minutes, usually chosen) or</li> <li>b) oral examination of one candidate each (15 to 30 minutes) or</li> <li>c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate)</li> <li>Language of assessment: German and/or English</li> <li>Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus</li> </ul>								
10-M-PGE-152-m01	Introdu	ction to	Projectiv									
	ECTS	9	Duration	۱	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses	S		V (4) -	+ Ü (2)							
	Method	l of asse	essment	<ul> <li>a) written examination (approx. 90 to 180 minutes, usually chosen) or</li> <li>b) oral examination of one candidate each (15 to 30 minutes) or</li> <li>c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate)</li> <li>Language of assessment: German and/or English</li> <li>Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus</li> </ul>								
10-M-ZTH-152-m01	Introdu	ction to	Number	Theory	1							
[	ECTS	9	Duration	۱	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses	S		V (4) -	+ Ü (2)							
	Method	l of asse	essment	<ul> <li>a) written examination (approx. 90 to 180 minutes, usually chosen) or</li> <li>b) oral examination of one candidate each (15 to 30 minutes) or</li> <li>c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate)</li> <li>Language of assessment: German and/or English</li> <li>creditable for bonus</li> </ul>								

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10-M-AALG-232-	Applied Algel	ora							
m01	ECTS 9	Duration	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate	
	Courses		V (4) +	· Ü (2)		-			
	Method of as	sessment	b) oral c) oral Langu	l examination of on examination in gro	e candidate each (15	to 15 minutes per candidate)			
10-M-LOG-232-	Introduction	to Mathem	atical L	.ogic					
m01	ECTS 9	Duration	n	1 semester	Method of grading	(not) successfully completed	Modul level		
	Courses		V (4) + Modul	· Ü (2) le taught in: Germai	n and/or English				
	Method of as	sessment	b) oral c) oral Langu Asses	l examination of on examination in gro age of assessment:	e candidate each (15 ups (groups of 2, 10 German and/or Engl	to 15 minutes per candidate)	e subsequent se	emester	
Subfield Overview	Applied Mathe	matics (12	ECTS c	redits)					
10-M-STO-Ü-152-	<b>Overview Sto</b>	chastics 1	and Sto	ochastics 2					
m01	ECTS 12	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses		V (4) +	.,					
	Method of assessmentoral examination of one candidate each (20 to 40 minutes)Assessment will have reference to two topics in applied mathematics as agreed upon with the examiner. Each topic may or be selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview). Language of assessment: German and/or English								vic may only
10-M-NUM-Ü-152-	Overview Nur	nerical Ma	themat	ics 1 and Numerica	l Mathematics 2			<u>    .                                </u>	
m01	ECTS 12	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses		V (4) +						
	Method of as		Asses be sel Langu	sment will have refe ected as the subjec age of assessment:	t of one examination German and/or Engl	n applied mathematics as agre in the sub-fields Gesamtüberb			vic may only
10-M-NUST-Ü-152-		· ·		ics 1 and Stochasti					
m01	ECTS 12	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses		V (4) +					_	
	Method of assessment oral examination of one candidate each (20 to 40 minutes) Assessment will have reference to two topics in applied mathematics as agreed upon with the examiner. Each topic may or be selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview). Language of assessment: German and/or English						ic may only		
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Subfield Overview	Pure Mathemat	ics (12 EC	TS cred	lits)						
10-M-ALGD-Ü-152-	Overview Alge	bra and O	Ordinary	y Differential Equa	tions					
m01	ECTS 12	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V (4) +	$(4) + \ddot{U}(2)$						
	Method of ass	essment			candidate each (20 to					
				Assessment will have reference to two topics in pure mathematics as agreed upon with the examiner. Each topic may only be selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview).						
	Language of assessment: German and/or English									
10-M-DGGD-Ü-152-	<b>Overview Diffe</b>	erential G	eometry	y and Ordinary Diff	erential Equations					
m01	ECTS 12	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V (4) +	- Ü (2)						
	Method of ass	essment	Asses select	sment will have ref ed as the subject o	of one examination in	n pure mathematics as agreed the sub-fields Gesamtüberblicl		examiner. Each topic may only be		
	Language of assessment: German and/or English									
10-M-ALFT-Ü-152-	Overview Alge	-1		· ·	1					
m01	ECTS 12	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V (4) + Ü (2)							
	Method of ass	essment	Asses select	sment will have ref ed as the subject o	candidate each (20 to ference to two topics i of one examination in t: German and/or Eng	n pure mathematics as agreed the sub-fields Gesamtüberblicl	upon with the e < (Overview).	examiner. Each topic may only be		
10-M-FTDG-Ü-152-	<b>Overview Com</b>	plex Anal	ysis an	d Differential Geor	metry					
m01	ECTS 12	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V (4) +							
	Method of assessment		oral examination of one candidate each (20 to 40 minutes) Assessment will have reference to two topics in pure mathematics as agreed upon with the examiner. Each topic may only be selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview). Language of assessment: German and/or English					examiner. Each topic may only be		
10-M-FTGD-Ü-152-	<b>Overview Com</b>	plex Anal	ysis an	d Ordinary Differe	ntial Equations					
m01	ECTS 12	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V (4) +							
	Method of ass	essment	Asses select	sment will have ref ed as the subject o		n pure mathematics as agreed the sub-fields Gesamtüberblicl		examiner. Each topic may only be		

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10-M-GADG-Ü-152-	Overvie	ew Geor	netric Ana	alysis	and Differential Geo	metry						
m01	ECTS	12	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		V (4) ·	V (4) + Ü (2)							
	Method	d of ass	essment			andidate each (20 to						
					Assessment will have reference to two topics in pure mathematics as agreed upon with the examiner. Each topic may only be							
				selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview). Language of assessment: German and/or English								
10-M-GAGD-Ü-152-	Overvie	ew Geor	netric Ana	etric Analysis and Ordinary Differential Equations								
m01		12	Duratio	-	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	s		V (4) ·	ι + Ü (2)		0					
	Method	d of ass	essment	oral e	xamination of one c	andidate each (20 to	40 minutes)					
					Assessment will have reference to two topics in pure mathematics as agreed upon with the examiner. Each topic may only be selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview).							
								berblick (Overview).				
10-M-GAFT-Ü-152-	Overvie	Language of assessment: German and/or English Overview Geometric Analysis and Complex Analysis										
m01		12	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			+ Ü (2)	Internod of grading	numerical grade	modullevel	undergidddate				
			essment		oral examination of one candidate each (20 to 40 minutes)							
				Assessment will have reference to two topics in pure mathematics as agreed upon with the examiner. Each topic may only be								
	selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview).											
				-	-	German and/or Eng	lish					
10-M-ALPG-Ü-152- m01			-	-	ve Geometry							
mor	ECTS	12	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course			V (4) + Ü (2)								
	Method	d of ass	essment	oral examination of one candidate each (20 to 40 minutes)								
					Assessment will have reference to two topics in pure mathematics as agreed upon with the examiner. Each topic may only be selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview).							
						German and/or Eng		· · · · ·				
10-M-ALAA-Ü-232-	Overvie	ew Alge	bra and A	pplied	Algebra							
m01	ECTS	12	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		V (4) ·	+ Ü (2)							
	Method	d of ass	essment	oral e	xamination of one c	andidate each (20 to	40 minutes)					
							n pure mathematics as the sub-fields Gesamtül		examiner. Each topic may only be			
						German and/or Eng						

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Subfield Overview	Advanced I	Mathem	natics (1	2 ECTS	5 credits)						
10-M-ALGD-Ü-152-	Overview Algebra and Ordinary Differential Equations										
m01	ECTS 12 Duration			1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		Ì	V (4) +				•			
	Method o	fasses	sment	oral e Asses	oral examination of one candidate each (20 to 40 minutes) Assessment will have reference to two topics in pure mathematics as agreed upon with the examiner. Each topic may only be						
	selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview). Language of assessment: German and/or English										
10-M-DGGD-Ü-152-	Overview	Differe				ferential Equations	·				
mo1	ECTS 12		Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			V (4) +	(4) + Ü (2)						
	Method o			oral examination of one candidate each (20 to 40 minutes) Assessment will have reference to two topics in pure mathematics as agreed upon with the examiner. Each topic may only be selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview). Language of assessment: German and/or English							
10-M-ALFT-Ü-152-	Overview	view Algebra and Complex Analysis									
m01	ECTS 12	2 [	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			V (4) +	+ Ü (2)						
	Method o	f asses		Asses select	sment will have re ed as the subject o	candidate each (20 t ference to two topics of one examination in t: German and/or Eng	in pure mathematics as a the sub-fields Gesamtüb	agreed upon with the e perblick (Overview).	examiner. Each topic may only be		
10-M-FTDG-Ü-152-	152- Overview Complex Analysis and Differential Geometry										
m01	ECTS 12 Duratio				1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			V (4) +	+ Ü (2)						
	Method o	fasses		Asses select	sment will have re ed as the subject o		in pure mathematics as a the sub-fields Gesamtüb		examiner. Each topic may only be		
10-M-FTGD-Ü-152-	Overview	Comple	ex Analy	/sis an	d Ordinary Differe	ntial Equations					
m01	ECTS 12	2 [	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			V (4) +	+ Ü (2)						
	Method o	fasses		Asses select	sment will have re ed as the subject o		in pure mathematics as a the sub-fields Gesamtüb		examiner. Each topic may only be		

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10-M-GADG-Ü-152-	Overvie	ew Geor	netric Ana	alysis	and Differential Geo	metry					
m01	ECTS	12	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V (4) ·	/ (4) + Ü (2)						
	Method	d of ass	essment		oral examination of one candidate each (20 to 40 minutes)						
					Assessment will have reference to two topics in pure mathematics as agreed upon with the examiner. Each topic may only be						
			selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview). Language of assessment: German and/or English								
10-M-GAGD-Ü-152-	Overvia	w Geor	netric An	-	and Ordinary Differe						
m01		12	Duratio	-	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	1	Duratio		+ Ü (2)		numencal glade	Modulievel	undergraduate		
			essment			andidate each (20 to	(o minutos)		_		
	Method	1 01 855	essment					reed upon with the o	examiner. Each topic may only be		
				select	Assessment will have reference to two topics in pure mathematics as agreed upon with the examiner. Each topic may only be selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview).						
			1	_	-	German and/or Eng	lish				
10-M-GAFT-Ü-152-			1		and Complex Analys						
m01	ECTS 12 Duratio				1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			V (4) ·	V (4) + Ü (2)						
	Method of assessment				oral examination of one candidate each (20 to 40 minutes)						
					Assessment will have reference to two topics in pure mathematics as agreed upon with the examiner. Each topic may only be selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview).						
						German and/or Eng					
10-M-ALPG-Ü-152-	Overvie	ew Alge	bra and P	-	ve Geometry	, 0					
m01		12	Duratio	-	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S	<u>,</u>	V (4) + Ü (2)							
	Method	d of ass	essment	oral e	oral examination of one candidate each (20 to 40 minutes)						
				Assessment will have reference to two topics in pure mathematics as agreed upon with the examiner. Each topic may only be selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview).							
								blick (Overview).			
10-M-ALDI-Ü-152-	Overrie		here and D			German and/or Eng	listi				
10-M-ALDI-0-152- mo1		12	Duratio		e Mathematics	Mathadafaradina	numerical grade	Modul level	undergreduete		
		I	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	-			+ Ü (2)		· · · · · · · · · · · · · · · · · · ·				
	Method	u or ass	essment	Asses	sment will have refe	andidate each (20 to erence to two topics	n 40 minutes) In pure mathematics as agr	eed upon with the	examiner. Each topic may only be		
				select	ted as the subject of	fone examination in	the sub-fields Gesamtüber	blick (Overview).	examinen Laen topie may only be		
						German and/or Eng					

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10-M-DIPG-Ü-152-	Overvie	ew Disc	rete Math	ematio	s and Projective Ge	ometry					
m01	ECTS	12	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V (4) ·	$/(4) + \ddot{U}(2)$						
	Method	d of ass	essment		oral examination of one candidate each (20 to 40 minutes)						
					Assessment will have reference to two topics in pure mathematics as agreed upon with the examiner. Each topic may only be						
		selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview). Language of assessment: German and/or English									
10-M-FADG-Ü-152-	Overvia	w Func	tional An	l Analysis and Differential Geometry							
m01		12	Duratio	<u> </u>	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	1	Duratio		+ Ü (2)	Method of glading	numencal grade	Modulievei	undergraduate		
			essment			andidate each (20 to	(o minutos)		_		
	Method	1 01 855	essment	Asses	sment will have refe	erence to two topics i	n pure mathematics as agree	ed upon with the o	examiner. Each topic may only be		
				select	Assessment will have reference to two topics in pure mathematics as agreed upon with the examiner. Each topic may only be selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview).						
						German and/or Eng	lish				
10-M-FAGD-Ü-152-					and Ordinary Differe						
m01	ECTS 12 Duratio				1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			V (4) ·	V (4) + Ü (2)						
	Method of assessment				oral examination of one candidate each (20 to 40 minutes)						
					Assessment will have reference to two topics in pure mathematics as agreed upon with the examiner. Each topic may only be selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview).						
						German and/or Eng					
10-M-FAFT-Ü-152-	Overvie	ew Func	tional An	_	and Complex Analys	-					
m01		12	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V (4) ·	V (4) + Ü (2)						
	Method	d of ass	essment	oral e	oral examination of one candidate each (20 to 40 minutes)						
				Assessment will have reference to two topics in pure mathematics as agreed upon with the examiner. Each topic may only be							
							the sub-fields Gesamtüberbl	lick (Overview).			
	Ourservie		tion of Am			German and/or Eng	lisn				
10-M-FAGA-Ü-152- m01					and Geometric Analy				Lundenning durche		
mor		12	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	-			+ Ü (2)		• • •				
	Method	a of ass	essment	oral e	xamination of one ca	andidate each (20 to	40 MINUTES)	ed upon with the	examiner. Each topic may only be		
				select	ted as the subject of	one examination in	the sub-fields Gesamtüberbl	lick (Overview).	examiner. Each topic may only be		
						German and/or Eng		······			

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10-M-ALZT-Ü-152-	Overview	Overview Algebra and Number Theory									
m01	ECTS 1	.2	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			V(4) + U(2)							
	Method o	ofass	essment	oral examination of one candidate each (20 to 40 minutes)							
				Assessment will have reference to two topics in pure mathematics as agreed upon with the examiner. Each topic may only be							
				selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview).							
	0	- D:66-			anguage of assessment: German and/or English						
10-M-DGZT-Ü-152- mo1					netry and Number Theory           1 semester         Method of grading         numerical grade         Modul level         undergraduate						
11101		.2	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			V (4) -							
	Method o	ofass	essment			andidate each (20 to					
				Asses	Assessment will have reference to two topics in pure mathematics as agreed upon with the examiner. Each topic may only be selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview).						
					Language of assessment: German and/or English						
10-M-GDZT-Ü-152-	Overview	ew Ordinary Differential Equations and Number Theory									
mo1	ECTS 1		Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
		Courses		V (4) -	ι + Ü (2)		5		5		
	Method o	ofass	essment			andidate each (20 to	40 minutes)				
				Assessment will have reference to two topics in pure mathematics as agreed upon with the examiner. Each topic may only be							
			selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview).								
				-	-	German and/or Engl	ish				
10-M-FTZT-Ü-152-			<u> </u>	-	sis and Number Theory						
m01	ECTS 1	.2	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			V (4) + Ü (2)							
	Method o	ofass	essment	oral examination of one candidate each (20 to 40 minutes)							
				Assessment will have reference to two topics in pure mathematics as agreed upon with the examiner. Each topic may only be selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview).							
						German and/or Engl		ck (Overview).			
10-M-GAZT-Ü-152-	Overview	Goor	notric An		and Number Theory		1311				
mo1	ECTS 1		Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses	.2	Duration		+ Ü (2)		numencai giaue	Modulievei	undergraduate		
		face	accment			andidata aach (aa ta	(a minutaa)				
	Method o	JI dSS	essment			andidate each (20 to prence to two topics i		d upon with the 4	examiner. Each topic may only be		
					selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview). Language of assessment: German and/or English						

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10-M-PGZT-Ü-152-	Overview	erview Projective Geometry and Number Theory									
m01	ECTS 1	12	Duration	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		·	V (4) ·	V (4) + Ü (2)						
	Method of	ofass	essment		oral examination of one candidate each (20 to 40 minutes)						
				Assessment will have reference to two topics in pure mathematics as agreed upon with the examiner. Each topic may only be							
				selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview). Language of assessment: German and/or English							
	0	D:	- 4 - 44 - 44	-	-	-	ISTI				
10-M-DIZT-Ü-152- m01					natics and Number Theory         1 semester       Method of grading         numerical grade       Modul level         undergraduate						
		12	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses				/ (4) + Ü (2)						
	Method of	ofass	essment			andidate each (20 to					
					Assessment will have reference to two topics in pure mathematics as agreed upon with the examiner. Each topic may only be selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview).						
					Language of assessment: German and/or English						
10-M-FAZT-Ü-152-	Overview	/ Functional Analysis and Number Theory									
mo1		12	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		J	V (4) ·	ι + Ü (2)						
	Method of assessment			oral examination of one candidate each (20 to 40 minutes)							
				Assessment will have reference to two topics in pure mathematics as agreed upon with the examiner. Each topic may only be							
				selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview).							
	Language of assessment: German and/or English										
10-M-DGPA-Ü-152-			1		y and Partial Differe						
m01	ECTS 1	12	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			V (4) + Ü (2)							
	Method of	ofass	essment	oral examination of one candidate each (20 to 40 minutes)							
				Assessment will have reference to two topics in pure mathematics as agreed upon with the examiner. Each topic may only be							
					selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview). Language of assessment: German and/or English						
10-M-GDPA-Ü-152-	Overview	v Ordi	nary Diffe		-	ial Differential Equat					
m01		12	Duration		1 semester	Method of grading		Modul level	undergraduate		
	Courses		Duration		+ Ü (2)	method of grading	numencut grade	Modulievel	undergladdate		
	Method	oface	accmont			andidate each (20 to	(o minutes)				
	Methou	01 055	essment	Asses	ssment will have refe	erence to two topics i	n pure mathematics as agree	ed upon with the e	examiner. Each topic may only be		
							the sub-fields Gesamtüberbl		······································		
				Language of assessment: German and/or English							

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10-M-FTPA-Ü-152-	Overvie	erview Complex Analysis and Partial Differential Equations									
m01	ECTS	12	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V (4) ·	$\sqrt{(4)} + \ddot{U}(2)$						
	Method	d of asse	essment	oral examination of one candidate each (20 to 40 minutes)							
				Assessment will have reference to two topics in pure mathematics as agreed upon with the examiner. Each topic may only be							
					selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview).						
10-M-GAPA-Ü-152-	Language of assessment: German and/or English         52-       Overview Geometric Analysis and Partial Differential Equations										
mo1	ECTS	12	Duration	<u> </u>	1 semester Method of grading numerical grade Modul level undergraduate						
			Duration			method of grading	numerical grade	Modul level	undergraduate		
	Course				+ Ü (2)						
	Method	a of asse	essment			andidate each (20 to		d upon with the	examiner. Each topic may only be		
							the sub-fields Gesamtüberbli		examiner. Each topic may only be		
					anguage of assessment: German and/or English						
10-M-FAPA-Ü-152-	Overvie	view Functional Analysis and Partial Differential Equations									
m01	ECTS 12 Duration			า	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses V			V (4) ·	+ Ü (2)		-				
	Method of assessment				oral examination of one candidate each (20 to 40 minutes)						
				Assessment will have reference to two topics in pure mathematics as agreed upon with the examiner. Each topic may only be							
			selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview). Language of assessment: German and/or English								
10-M-PAZT-Ü-152-	Overvia	w Parti	al Difforo	_	quations and Numb	-	11511				
mo1	ECTS	12	Duration		1 semester		numorical grado	Modul level	undergraduate		
	Course		Duration	1 semesterMethod of gradingnumerical gradeModul levelundergraduateV (4) + Ü (2)							
			essment								
	Method	J 01 d556	essment	oral examination of one candidate each (20 to 40 minutes) Assessment will have reference to two topics in pure mathematics as agreed upon with the examiner. Each topic may only be							
					selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview).						
				Language of assessment: German and/or English							
10-M-STO-Ü-152-	Overvie	ew Stoc	hastics 1	and St	ochastics 2						
m01	ECTS	12	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V (4) ·	+ Ü (2)						
	Method	d of asse	essment	oral e	xamination of one c	andidate each (20 to	40 minutes)				
								rblick (Overview)			
	ECTS     12     Duration       Courses			V (4) · oral e Asses	V (4) + Ü (2) oral examination of one candidate each (20 to 40 minutes) Assessment will have reference to two topics in applied mathematics as agreed upon with the examiner. Each topic may only						
				be selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview). Language of assessment: German and/or English							

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10-M-NUM-Ü-152-											
m01	ECTS	12	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V (4)	V (4) + Ü (2)						
	Method	d of ass	essment		oral examination of one candidate each (20 to 40 minutes)						
				Assessment will have reference to two topics in applied mathematics as agreed upon with the examiner. Each topic may only							
					be selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview). Language of assessment: German and/or English						
10-M-GD-	Overvi	ew Ordi	nary Diffe	-	ential Equations and Numerical Mathematics 1						
NU1-Ü-152-m01	ECTS	12	Duratio					undergraduate			
	Course			-	+ Ü (2)						
	Method of assessment			oral e Asse may Lang	oral examination of one candidate each (20 to 40 minutes) Assessment will have reference to two topics in pure and applied mathematics as agreed upon with the examiner. Each topic may only be selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview). Language of assessment: German and/or English						
10-M-GD-	Overvi	ew Ordi	nary Diffe	rentia	l Equations and Nun	nerical Mathematics	2		_		
NU2-Ü-152-m01	ECTS 12 Duratio			n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			V (4)	+ Ü (2)						
	Method of assessment			oral examination of one candidate each (20 to 40 minutes) Assessment will have reference to two topics in pure and applied mathematics as agreed upon with the examiner. Each topi may only be selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview). Language of assessment: German and/or English							
10-M-FA-	Overvi	ew Func	tional An	nal Analysis and Numerical Mathematics 1							
NU1-Ü-152-m01	ECTS	12	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S	-	V (4) + Ü (2)							
	Method of assessment			oral examination of one candidate each (20 to 40 minutes) Assessment will have reference to two topics in pure and applied mathematics as agreed upon with the examiner. Each topi may only be selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview). Language of assessment: German and/or English							
10-M-FA-	Overvi	ew Func	tional Ana	alysis	and Numerical Math	ematics 2					
NU2-Ü-152-m01	ECTS	12	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	:S		V (4)	+ Ü (2)						
	Method of assessment			Asse: may	oral examination of one candidate each (20 to 40 minutes) Assessment will have reference to two topics in pure and applied mathematics as agreed upon with the examiner. Each topic may only be selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview). Language of assessment: German and/or English						

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10-M-OM-	Overviev	w Opti	mization	for Ma	or Machine Learning and Numerical Mathematics 1						
NU1-Ü-232-m01	ECTS	12	Duration	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			V (4) ·	/ (4) + Ü (2)						
	Method	ofass	essment			candidate each (20 to					
				Assessment will have reference to two topics in applied mathematics as agreed upon with the examiner. Each topic may only							
				be selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview). Language of assessment: German and/or English							
10-M-OM-	Overview	w Onti	mization		r Machine Learning and Numerical Mathematics 2						
NU2-Ü-232-mo1		12	Duration		1 semester	Method of grading		Modul level	undergraduate		
	Courses		Duration		+ Ü (2)	Method of grading	numencai grade	Modul level			
			accmont			andidata angh (an ta	(a minutas)				
	Method	01 8550	essment			candidate each (20 to erence to two topics i		eed upon with th	ne examiner. Each topic may only		
							in the sub-fields Gesamtüberk				
				Langu	nguage of assessment: German and/or English						
10-M-PA-	Overviev	w Parti	al Differe	ntial E	al Equations and Numerical Mathematics 1						
NU1-Ü-152-m01	ECTS	12	Duration	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			V (4) ·	+ Ü (2)				_		
	Method of assessment				oral examination of one candidate each (20 to 40 minutes)						
				Assessment will have reference to two topics in pure and applied mathematics as agreed upon with the examiner. Each topic							
				may only be selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview). Language of assessment: German and/or English							
10-M-PA-	Overviev	w Parti	al Differe	ntial Equations and Numerical Mathematics 2							
NU2-Ü-152-mo1			Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
_	Courses		Duration			method of grading	numencut glude	modulievei			
			essment	V (4) + Ü (2) oral examination of one candidate each (20 to 40 minutes)							
	Methou	01 055	essment	Assessment will have reference to two topics in pure and applied mathematics as agreed upon with the examiner. Each topic							
					may only be selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview).						
				Language of assessment: German and/or English							
10-M-OMFA-Ü-232-		w Opti	mization	for Ma	or Machine Learning and Functional Analysis						
m01	ECTS	12	Duration	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		_	V (4) ·	+ Ü (2)						
	Method	ofass	essment			candidate each (20 to					
									oon with the examiner. Each topic		
					may only be selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview). Language of assessment: German and/or English						

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10-M-OM-	Overvie	erview Optimization for Machine Learning and Partial Differential Equations									
PA-Ü-232-m01	ECTS	12	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses	S	-3	V (4) ·	/ (4) + Ü (2)						
	Method	l of ass	essment		oral examination of one candidate each (20 to 40 minutes)						
				Asses	ssessment will have reference to two topics in pure and applied mathematics as agreed upon with the examiner. Each topic						
	may only be selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview). Language of assessment: German and/or English								Jverview).		
10-M-ALAA-Ü-232-	Overvie		bra and A	-	_		11511				
mo1		12	Duratio	<u>· · ·</u>	ied Algebra           1 semester         Method of grading numerical grade         Modul level undergraduate						
					1 semester + Ü (2)		numencal glade	Modulilevel	undergraduate		
	Courses		essment			andidata angh (an ta	(a minutac)				
	Method	l of asso	essment			andidate each (20 to		agreed upon with the e	examiner. Fach tonic may only be		
					Assessment will have reference to two topics in pure mathematics as agreed upon with the examiner. Each topic may only be selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview).						
				Langu	lage of assessment:	German and/or Eng	lish				
10-M-AAZT-Ü-232-	Overvie	ew Appl	ied Algeb	ra and	Number Theory						
m01	ECTS	12	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses	S		V (4) ·	+ Ü (2)						
	Method	l of ass	essment			andidate each (20 to					
				Assessment will have reference to two topics in pure mathematics as agreed upon with the examiner. Each topic may only be selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview).							
				Language of assessment: German and/or English							
10-M-AADI-Ü-232-	Overvie		ied Algeh	_	Discrete Mathemat	-					
mo1		12	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		Duration	$V(4) + \ddot{U}(2)$							
			essment		oral examination of one candidate each (20 to 40 minutes)						
	Method	1 01 055	essment	Assessment will have reference to two topics in pure mathematics as agreed upon with the examiner. Each topic may only be							
				selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview).							
					lage of assessment:	German and/or Eng	lish				
10-M-ALLO-Ü-232-			bra and L		gic						
m01	ECTS	12	Duration		1 semester	Method of grading	numerical grade	Modul level			
	Courses				+ Ü (2)						
	Method	lofass	essment			andidate each (20 to					
									examiner. Each topic may only be		
				selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview). Language of assessment: German and/or English							

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10-M-AALO-Ü-232-	Overvi	ew Appli	ed Algeb	ra and	Logic						
m01	ECTS	12	Duratio	ı	1 semester	Method of grading	numerical grade	Modul level			
	Course	S		V (4) +	+ Ü (2)	•		* *			
	Metho	d of asse	essment		oral examination of one candidate each (20 to 40 minutes)						
					Assessment will have reference to two topics in pure mathematics as agreed upon with the examiner. Each topic may only be selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview).						
						German and/or Engl		lick (Overview).			
10-M-DILO-Ü-232-	Overvi	w Diccr	oto Math	-	s and Logic		1511				
mo1	ECTS	12	Duration		1 semester	Method of grading	numerical grade	Modul level	1		
			Duration			Method of grading	numencal grade	Modul level	<u> </u>		
	Course			V (4) +			· · · · · · · · · · · · · · · · · · ·				
	Metho	d of asse	essment			andidate each (20 to		ed upon with the e	xaminer. Each topic may only be		
							the sub-fields Gesamtüberbl		xammen. Each topic may only be		
				Langu	age of assessment:	German and/or Engl	ish	. ,			
10-M-LOZT-Ü-232-	Overvi	ew Logic	and Nun	ıber Th	ieory						
m01	ECTS 12 Duratio				1 semester	Method of grading	numerical grade	Modul level			
	Course	S		V (4) +	+ Ü (2)	•		°			
	Metho	d of asse	essment	oral e	oral examination of one candidate each (20 to 40 minutes)						
				Assessment will have reference to two topics in pure mathematics as agreed upon with the examiner. Each topic may only be							
					selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview). Language of assessment: German and/or English						
Compulsory Electiv	oc Anni	ication	viontod	-							
						n a single one of the f	focuses listed below. In addi	ition. students mu	st successfully complete, in		
the area of mandate	ory elec	tives app	olication-						ion 3 Subsection 2 Sentences 2		
through 4 FSB (sub)	ject-spe	cific pro	visions).								
Focus Biology (30 E	CTS cre	dits)									
Modules General B	iology I										
07-1A1Z-	The Pla	ant King	dom								
PF-152-m01	ECTS	5	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V (1.5)	) + Ü (2.5)			·			
	Method of assessment			writte	n examination (appr	ox. 60 minutes)					
					able for bonus						
	other p	orerequis	sites						1 80%) and successful completi-		
				on of the respective exercises (approx. 25 to 30 hours) are prerequisites for admission to assessment.							

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07-1A1TI-152-m01	Evolutio	n and t	he Anima	al King	l Kingdom					
	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses			V (2) +	+ Ü (3)					
	Method	ofasse	essment	written examination (approx. 60 minutes)						
					creditable for bonus					
	other pro	erequis	sites		Admission prerequisite to assessment: exercises. Regular attendance (minimum 80%) and successful completion of exerci- ses (approx. 25 to 30 hours) are prerequisites for admission to assessment.					
	Referred	l to in L	PO I		§ 41   Nr. 1 (4 ECTS credits) and § 41   Nr. 4 (1 ECTS credits) § 61   Nr. 1 (4 ECTS credits) and § 61   Nr. 4 (1 ECTS credits)					
Modules General B	iology II									
07-2A2PHYPF-152-	Plant Ph	ysiolo	gy							
m01	ECTS	4	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses			V (1) +	· Ü (2)					
	Method	ofasse	essment		n examination (app able for bonus	rox. 60 minutes)				
	other prerequisites			Admission prerequisite to assessment: exercises. Regular attendance (minimum 80%) and successful completion of exerci- ses (approx. 25 to 30 hours) are prerequisites for admission to assessment.						
	Referred to in LPO I			§ 61   Nr. 2						
07-2A2PHY-	Animal F	Physiol	ogy							
TI-152-m01	ECTS	4	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses			V (1) +	V (1) + Ü (2)					
	Method of assessment			written examination (approx. 60 minutes) creditable for bonus						
	other prerequisites			Admission prerequisite to assessment: exercises. Regular attendance (minimum 80%) and successful completion of exerci- ses (approx. 25 to 30 hours) are prerequisites for admission to assessment.						
	Referred	l to in L	PO I	§ 41   Nr. 2 § 61   Nr. 2						
07-2A2GEN-	Genetics	s, Neur	obiology	, Behaviour						
V-152-m01	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses			V (3)				*		
	Method of assessment		written examination (approx. 60 to 90 minutes) creditable for bonus							
	other pro	erequis	sites		Admission prerequisite to assessment: exercises. Regular attendance (minimum 80%) and successful completion of exercises (approx. 25 to 30 hours) are prerequisites for admission to assessment.					
	Referred	l to in L	PO I	§ 61 l	61   Nr. 2 (2 ECTS credits) 61   Nr. 3 (1 ECTS credits) 61   Nr. 4 (1 ECTS credits)					

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Modules General E	Biology II	I									
07-3A3EBIO-	Develo	pmenta	l Biology	of Ani	nals						
TI-152-m01	ECTS	4	Duratio		1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses			• • •	V (1) + Ü (3)						
	Method	l of ass	essment		written examination (approx. 60 minutes) creditable for bonus						
	other p	rerequi	sites		Admission prerequisite to assessment: exercises. Regular attendance (minimum 80%) and successful completion of exerci- ses (approx. 25 to 30 hours) are prerequisites for admission to assessment.						
	Referre	d to in I	LPO I	§ 61	§ 61   Nr. 5						
07-3A3E-	Develo	pmenta	l Biology	of Plai	its						
BIOPF-152-m01	ECTS	4	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses	S		V (1) -	- Ü (3)	· ·	·				
	Method	l of ass	essment		n examination (app able for bonus	rox. 60 minutes)					
	other p	rerequi	sites		Admission prerequisite to assessment: exercises. Regular attendance (minimum 80%) and successful completion of exerci- ses (approx. 25 to 30 hours) are prerequisites for admission to assessment.						
	Referred to in LPO I			§ 61	Nr. 5						
07-3A30E-	Plant and Animal Ecology										
KO-152-m01	ECTS 6 Duratio		n	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Courses		V (2) + Ü (2)								
	Method of assessment			written examination (approx. 90 minutes) creditable for bonus							
	Referred to in LPO I			§ 61   Nr. 4							
07-3A3GEM-	Genes,	Molecu	iles, Tech								
T-152-m01	ECTS	6	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses	-		V (4)							
	Method	l of ass	essment	written examination (approx. 90 minutes) creditable for bonus							
07-3A3BC-152-m01	Basic B	iochem	istry								
	ECTS	4	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses	S		V (1) -	- Ü (2)	· ·					
	Method of assessment				written examination (approx. 60 minutes) creditable for bonus						
	other p	rerequi	sites		mission prerequisite to assessment: exercises. Regular attendance of exercises (minimum 80%) and successful comple of the respective exercises (approx. 25 to 30 hours) are prerequisites for admission to assessment.						

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Modules Mathemat	Modules Mathematics/Quantitative Biology										
07-M-BST-152-m01	01 Mathematical Biology and Biostatistics										
	ECTS	ECTS 4 Duration 1 semester Method of grading numerical grade Modul level undergraduate									
	Courses V (2) + Ü (2)										
	Methoo	l of asse		written examination (approx. 60 minutes) creditable for bonus							

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07-4A4FLO-211-	The Flora of	Germany								
m01	ECTS 7	Duratio	n 1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Courses	,	V (1) + Ü (2) + E (2.5)							
	Method of as	sessment	1:1	written examination (approx. 45 minutes) and practical identification assignment (approx. 45 minutes), weighted or portfolio 1:1 Assessment offered: Once a year, summer semester						
	other prereq	uisites	prerequisite for admiss	e to assessment: Regular participation in the sion to the exam is regular attendance at the tent of approx. 25 -30 hours						
	Participants cation of pla	ces	Students of the Bachel Should the module be chelor's degree subject located to students of the degree subjects Compu- cation-oriented subject available in one quota quota. Should there be form regulation for the concerned will be alloc least one other module A waiting list will be ma Selection process grout ments. For this purpose rage grade of all assess cluding Chemie (Chemi lows: First, applicants vi dits (qualitative rankin applicants' position in ding to this third rankink king or otherwise by low Selection process grout number of ECTS credits the same number of ECT sters of the respective lot. Quota 3 (25 % of pl Should the module be cated according to the	up 2 (5%): Places will be allocated according s already achieved in modules/module comp CTS credits achieved, places will be allocated applicant; among applicants with the same laces): lottery. used only in the Bachelor's degree subject E selection process of group 1.	Bo ECTS credits will be gi btas: 95% of places will b d 5% of places (a minimu ogy) with 60 ECTS credits thematics), each with 180 of other 'importing' subje aining places will be allou urses with a restricted nu ase, places on all course re, applicants who alread e given preferential consi come available. according to the applican number of ECTS credits to odule components in the natics)) at the time of applican of these two rankings, a , places will be allocated to the following quotas: bonents of the Faculty of l by lot. Quota 2 (25% of number of subject semes	ven preferential consideration. e allocated to students of the Ba- im of one place in total) will be al- and to students of the Bachelor's o ECTS credits, as part of the appli- cts). Should the number of places cated to applicants from the other mber of places, there will be a uni s of a module component that are dy have successfully completed at deration. ts' previous academic achieve- they have achieved and their ave- subject of Biologie (Biology) (ex- olication. This will be done as fol- ording to the number of ECTS cre- eved (quantitative ranking). The nd places will be allocated accor- according to the qualitative ran- Quota 1 (50 % of places): total Biology; among applicants with places): number of subject seme- sters, places will be allocated by				
	Referred to in	1 LPO I	§ 41   Nr. 1 (3 ECTS cred	dits) and § 41 I Nr. 4 (2 ECTS credits)						

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07-4A4FAU-152-	The Fauna of Germany													
m01	ECTS	7	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Course	s		V (1)	+ Ü (2) + E (2.5)									
	Method	1 of ass	essment	Asse credi	written examination (approx. 45 minutes) and practical identification assignment (approx. 45 minutes), weighted 1:1 Assessment offered: Once a year, summer semester creditable for bonus									
	other p	orerequi	sites	atten	Admission prerequisite to assessment: regular attendance of field trips (minimum 80%) and completion of exercises. Regular attendance of exercises (minimum 80%) and successful completion of the respective exercises (approx. 25 to 30 hours) is a prerequisite for admission to assessment.									
		oants ar of place	25	180 p Shou Stud Shou cheld locat degre catio avail quota form conc least A wa Selec ment rage cludi lows dits ( appli ding king Selec numl the s sters lot. C	places. JI d the number of lents of the Bache JI d the module be or's degree subject ted to students of ee subjects Comp on-oriented subject lable in one quota a. Should there be regulation for the regulation for the serned will be allow to ne other modul iting list will be modul iting list will be modul iting list will be modul iting chemie (Chemistics) grade of all assess ing Chemie (Chemistics) grade of all assess ing Chemie (Chemistics) grade of all assess ing Chemie (Chemistics) ction process grouts to this third ranking or otherwise by low ction process grouts ber of ECTS credit same number of Ection and the respective Quota 3 (25 % of pounds)	applications exceed the elor's degree subject Bio e used in other subjects, ct Biologie (Biology) with the Bachelor's degree s butational Mathematics a ct Biology (as well as pot a exceed the number of a e, within one module co e courses of one module cated in the same proce le component of the resp naintained and places re up 1 (95%): Places will p se, applicants will be ran ssments taken during the nistry), Physik (Physics), will be ranked, firstly, a ng) and, secondly, accor n a third ranking will be co ing. Among applicants wo ot. up 2 (5%): Places will be salready achieved in mo CTS credits achieved, pl e applicant; among appli places): lottery.	logie (Biology) with 18 there will be two quot a 180 ECTS credits and ubject Biologie (Biolo and Mathematik (Math tentially to students o applications, the rema mponent, several cou component. In this ca dure. In this procedur bective module will be -allocated as they bed rimarily be allocated a the according to the eir studies or of all mo Mathematik (Mathem ccording to their avera ding to their total num calculated as the sum vith the same ranking, allocated according to odules/module comp- aces will be allocated cants with the same num cor's degree subject Bio	so ECTS credits will be gi tas: 95% of places will b 15% of places (a minimu gy) with 60 ECTS credits hematics), each with 180 f other 'importing' subje ining places will be allo rses with a restricted nu ase, places on all course re, applicants who alread given preferential consist come available. according to the applican number of ECTS credits in be at components in the hatics)) at the time of applican of these two rankings, a places will be allocated to the following quotas: onents of the Faculty of by lot. Quota 2 (25% of number of subject semes	iven preferential consideration. The allocated to students of the Ba- um of one place in total) will be al- and to students of the Bachelor's o ECTS credits, as part of the appli- cts). Should the number of places cated to applicants from the other imber of places, there will be a uni- es of a module component that are dy have successfully completed at					

07-4S1N-	Neurobiology	y 1						
V01-152-m01	ECTS 5	Duratio	n	1 semester	undergraduate			
	Courses		Ü (4)	+ S (1)				
	Method of as	sessment	<ul> <li>a) written examination (approx. 45 to 60 minutes) or</li> <li>b) log (approx. 10 to 20 pages) or</li> <li>c) oral examination of one candidate each (approx. 30 minutes) or</li> <li>d) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) or</li> <li>e) presentation (approx. 20 to 30 minutes) or</li> <li>f) practical examination (on average approx. 2 hours; time to complete will vary according to subject area but will not exceed a maximum of 4 hours).</li> <li>Students will be informed about the method and length of the assessment prior to the course.</li> <li>creditable for bonus</li> </ul>					
	Participants a cation of plac		Stude Shou chelo locate degre cation availa quota form conce least A wai Selec ment rage cludii lows: dits ( appli ding t king o Selec numb the sa sters lot. Q Shou	Id the number of a ents of the Bachel Id the module be ir's degree subject ed to students of t es subjects Compu- n-oriented subject able in one quota a. Should there be regulation for the erned will be alloc one other module ting list will be ma tion process grou s. For this purpose grade of all assess ng Chemie (Chemi First, applicants v qualitative ranking cants' position in to this third rankir or otherwise by lot tion process grou ber of ECTS credits ame number of EC of the respective a uota 3 (25 % of pl ld the module be	p 2 (5%): Places will be allocated according to the already achieved in modules/module componer TS credits achieved, places will be allocated by lo applicant; among applicants with the same numb	CTS credits will be giv 95% of places will be of places (a minimu with 60 ECTS credits atics), each with 180 per 'importing' subject g places will be alloct with a restricted nur places on all courses oplicants who alread en preferential consider available. rding to the applicant ber of ECTS credits the components in the s)) at the time of app grade weighted acco of ECTS credits achi- nese two rankings, and ces will be allocated e following quotas: Conts of the Faculty of E ot. Quota 2 (25% of per of subject semes	ven preferential consideration. e allocated to students of the Ba- m of one place in total) will be al- and to students of the Bachelor's ECTS credits, as part of the appli- cts). Should the number of places tated to applicants from the other mber of places, there will be a uni- s of a module component that are y have successfully completed at deration. Ats' previous academic achieve- hey have achieved and their ave- subject of Biologie (Biology) (ex- plication. This will be done as fol- rding to the number of ECTS cre- eved (quantitative ranking). The nd places will be allocated accor- according to the qualitative ran- Quota 1 (50 % of places): total Biology; among applicants with places): number of subject seme- ters, places will be allocated by	

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07-4S1N-	Integr	ative Be	ehavioral B	Biology	/ 1			
VO2-152-m01	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	undergraduate
	Course				+ S (2)			
	Metho	d of ass	sessment	b) log c) ora d) ora e) pre f) pra	g (approx. 10 to 20 al examination of o al examination in g esentation (approx	(approx. 45 to 60 minutes) or pages) or one candidate each (approx. 30 minutes) or groups of up to 3 candidates (approx. 20 minute k. 20 to 30 minutes) or n (on average approx. 2 hours; time to complete		subject area but will not exceed a
				Stude		ed about the method and length of the assessm	nent prior to the cours	e.
		ipants a of place	ind allo- es	Stude Shoul chelo locate degre cation availa quota form i conce least A wai Selec ments rage g cludir lows: dits (a applie ding t king o Selec numb the sa sters lot. Q Shoul	Id the number of a ents of the Bachelo Id the module be u or's degree subject ed to students of the es subjects Compu n-oriented subject able in one quota e a. Should there be, regulation for the o erned will be allocat one other module ting list will be ma stion process group s. For this purpose grade of all assess ng Chemie (Chemis First, applicants w qualitative ranking cants' position in a to this third rankin or otherwise by lot tion process group per of ECTS credits ame number of EC of the respective a puota 3 (25 % of pla Id the module be u	p 2 (5%): Places will be allocated according to the already achieved in modules/module compone TS credits achieved, places will be allocated by applicant; among applicants with the same num	ECTS credits will be gives: 95% of places (a minimum % of places (a minimum ) with 60 ECTS credits a matics), each with 180 ther 'importing' subject ing places will be alloct es with a restricted nur e, places on all courses applicants who alread ven preferential considered wen preferential considered in the available. cording to the applican mber of ECTS credits the ule components in the ics)) at the time of app e grade weighted accord er of ECTS credits achies these two rankings, ar laces will be allocated the following quotas: C ents of the Faculty of B y lot. Quota 2 (25 % of post mber of subject semest	ven preferential consideration. e allocated to students of the Ba- m of one place in total) will be al- and to students of the Bachelor's ECTS credits, as part of the appli- cts). Should the number of places cated to applicants from the other mber of places, there will be a uni- s of a module component that are y have successfully completed at deration. Ats' previous academic achieve- hey have achieved and their ave- subject of Biologie (Biology) (ex- olication. This will be done as fol- rding to the number of ECTS cre- eved (quantitative ranking). The nd places will be allocated accor- according to the qualitative ran- Quota 1 (50 % of places): total Biology; among applicants with places): number of subject seme- ters, places will be allocated by

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07-4S1N-	Biolog	y and E	cology of A	Arthro	pods			
V05-152-m01	ECTS	5	Duration	n	1 semester	Method of grading numerical grade	Modul level	undergraduate
	Course	es		Ü (4)	+ S (1)			
	Metho	d of ass	essment	b) log c) ora d) ora e) pre f) pra maxir Stude	g (approx. 10 to 20 al examination of o al examination in g esentation (approx actical examination mum of 4 hours).	(approx. 45 to 60 minutes) or pages) or one candidate each (approx. 30 minutes) or groups of up to 3 candidates (approx. 20 minut <. 20 to 30 minutes) or n (on average approx. 2 hours; time to complete red about the method and length of the assess	e will vary according to	
		pants a of place	nd allo- es	Stude Shou chelo locate degre cation availa quota form conce least A wai Selec ments rage g cludin lows: dits ( applie ding t king o Selec numb the sa sters lot. Q Shou	Id the number of a ents of the Bachelo Id the module be u or's degree subject ed to students of the es subjects Compu n-oriented subject able in one quota e a. Should there be, regulation for the o erned will be allocat one other module iting list will be ma ction process group s. For this purpose grade of all assess ng Chemie (Chemis s. For this purpose grade of all assess ng Chemie (Chemis cants' position in a to this third rankin or otherwise by lot ction process group per of ECTS credits ame number of EC of the respective a Quota 3 (25 % of pla Id the module be u	p 2 (5%): Places will be allocated according to t already achieved in modules/module compon TS credits achieved, places will be allocated by applicant; among applicants with the same nur	ECTS credits will be giv s: 95% of places will be 5% of places (a minimu y) with 60 ECTS credits a ematics), each with 180 other 'importing' subject ing places will be alloc ses with a restricted nur e, places on all courses , applicants who alread given preferential consider me available. (cording to the applican umber of ECTS credits the lule components in the tics)) at the time of app ge grade weighted accord ber of ECTS credits achies f these two rankings, ar places will be allocated the following quotas: Contents of the Faculty of B by lot. Quota 2 (25 % of post mber of subject semest	ven preferential consideration. e allocated to students of the Ba- m of one place in total) will be al- and to students of the Bachelor's ECTS credits, as part of the appli- cts). Should the number of places cated to applicants from the other mber of places, there will be a uni- s of a module component that are y have successfully completed at deration. Ats' previous academic achieve- hey have achieved and their ave- subject of Biologie (Biology) (ex- plication. This will be done as fol- rding to the number of ECTS cre- eved (quantitative ranking). The nd places will be allocated accor- according to the qualitative ran- Quota 1 (50 % of places): total Biology; among applicants with places): number of subject seme- ters, places will be allocated by

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07-4S1AM-	Metho	ds in Bi	otechnolo	gy					
B-152-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Course	S		V (2) -	+ S (2)				
	Method	d of ass	essment		en examination (app table for bonus	prox. 30 to 60 minutes	5)		
		pants ar		Stude Shoul chelo locate degre catior availa quota form r conce least A wait Select ments rage g cludir lows: dits (d applid ding t king c Select numb the sa sters lot. Qi	Id the number of ap ents of the Bachelor Id the module be us or's degree subject E ed to students of the ee subjects Compute n-oriented subject E able in one quota ex a. Should there be, v regulation for the co erned will be allocat one other module c ting list will be main tion process group s. For this purpose, grade of all assessm ng Chemie (Chemist First, applicants wi qualitative ranking) cants' position in a to this third ranking or otherwise by lot. tion process group ber of ECTS credits a ame number of ECTS of the respective ap yuota 3 (25 % of place Id the module be us	r's degree subject Biol sed in other subjects, Biologie (Biology) with e Bachelor's degree si ational Mathematics a Biology (as well as pot xceed the number of a within one module cor- ourses of one module ted in the same proce- component of the resp ntained and places re- 1 (95%): Places will per applicants will be ran nents taken during the try), Physik (Physics), ill be ranked, firstly, ac- and, secondly, accord third ranking will be c s. Among applicants w 2 (5%): Places will be already achieved in mo S credits achieved, pla oplicant; among applic ces): lottery.	a 180 ECTS credits and 5% of pl ubject Biologie (Biology) with 6 and Mathematik (Mathematics) tentially to students of other 'ir applications, the remaining pla mponent, several courses with component. In this case, place dure. In this procedure, applica- bective module will be given pre- allocated as they become ava rimarily be allocated according ted according to the number of eir studies or of all module com Mathematik (Mathematics)) at ccording to their average grade ding to their total number of EC calculated as the sum of these with the same ranking, places w allocated according to the foll odules/module components of aces will be allocated by lot. Q cants with the same number of lor's degree subject Biologie (B	redits will be giv of places will be aces (a minimu 50 ECTS credits ), each with 180 nporting' subject ces will be alloct a restricted nur es on all courses ants who alread eferential consid- ilable. If the applican of ECTS credits the ponents in the the time of app weighted account CTS credits achies two rankings, and ill be allocated owing quotas: C f the Faculty of E uota 2 (25 % of f subject semest	ven preferential consideration. e allocated to students of the Ba- m of one place in total) will be al- and to students of the Bachelor's ECTS credits, as part of the appli- ets). Should the number of places ated to applicants from the other nber of places, there will be a uni- s of a module component that are y have successfully completed at deration. ts' previous academic achieve- hey have achieved and their ave- subject of Biologie (Biology) (ex- dication. This will be done as fol- rding to the number of ECTS cre- eved (quantitative ranking). The nd places will be allocated accor- according to the qualitative ran-

07-4S1MOLB-152- Asp	pects	of Molecular Bi	otechno	ology	1			
mo1 ECT	TS 5	5 Duration	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate
Cou	urses		V (2) +	- S (2)				
Met	thod o	of assessment		n examination (appr able for bonus	rox. 30 to 60 minutes			
Dart	ticina	nts and allo						
		nts and allo- places	Studer Should chelor locate- degree cation availal quota. form re concer least of A waiti Select ments rage g cludin lows: f dits (q applic. ding to king of Select numbe the sa sters of lot. Qu Should	d the number of app nts of the Bachelor's d the module be use 's degree subject Bi d to students of the e subjects Computa -oriented subject Bi ble in one quota exe . Should there be, w egulation for the courned will be allocate one other module co ing list will be allocate one other module co ing list will be main ion process group 1 . For this purpose, a rade of all assessm g Chemie (Chemistr First, applicants will jualitative ranking) a ants' position in a t o this third ranking. r otherwise by lot. ion process group 2 er of ECTS credits al me number of ECTS of the respective app uota 3 (25 % of place d the module be use	s degree subject Biol ed in other subjects, iologie (Biology) with Bachelor's degree s tional Mathematics a iology (as well as pot ceed the number of a vithin one module co- urses of one module ed in the same proce- omponent of the resp tained and places re- (95%): Places will be ranked, firstly, ac and, secondly, accord hird ranking will be co- hird ranking will be co- Among applicants will e (5%): Places will be ready achieved in mo- credits achieved, pla- plicant; among appli-	there will be two quotas: 95 180 ECTS credits and 5% of ubject Biologie (Biology) with and Mathematik (Mathemati entially to students of other pplications, the remaining p mponent, several courses w component. In this case, pla dure. In this procedure, app ective module will be given allocated as they become a rimarily be allocated accord ked according to the number of alculated as the sum of the ith the same ranking, places allocated according to the f bodules/module components aces will be allocated by lot. cants with the same number or's degree subject Biologie	S credits will be given % of places will be f places (a minimu th 60 ECTS credits ics), each with 180 oblaces will be alloc ith a restricted nur aces on all courses licants who alread preferential considered vailable. ing to the applican er of ECTS credits the of ECTS credits achies se two rankings, ar s will be allocated following quotas: C s of the Faculty of E Quota 2 (25 % of r of subject semest	ven preferential consideration. e allocated to students of the Ba- m of one place in total) will be al- and to students of the Bachelor's ECTS credits, as part of the appli- its). Should the number of places ated to applicants from the other nber of places, there will be a uni- s of a module component that are y have successfully completed at

07-4S1M-	Specia	al Bioinfoi	rmatics 1					
Z6-152-m01	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Course	2S	V (	(1) + Ü (5)				
	Metho	d of asse	Lai	og (approx. 10 to 20 pag Inguage of assessment editable for bonus				
		pants and of places	s Stu Sh ch loc de cat ava qu for col lea A v Se me rag clu lov dit ap dir kir Se nu the ste lot Sh	udents of the Bachelor hould the module be us helor's degree subject E cated to students of the gree subjects Compute tion-oriented subject E vailable in one quota ex- tota. Should there be, w rm regulation for the co- oncerned will be allocat ast one other module of waiting list will be main election process group ents. For this purpose, ge grade of all assess uding Chemie (Chemisti ws: First, applicants wi ts (qualitative ranking) oplicants' position in a ng to this third ranking ng or otherwise by lot. election process group umber of ECTS credits a e same number of ECTS ers of the respective ap t. Quota 3 (25 % of place	r's degree subject Biol sed in other subjects, Biologie (Biology) with the Bachelor's degree sub- tational Mathematics and Biology (as well as pot eational Mathematics and within one module con- ourses of one module ted in the same process component of the resp ntained and places re- 1 (95%): Places will be applicants will be ran nents taken during the try), Physik (Physics), ill be ranked, firstly, ac and, secondly, accord third ranking will be c g. Among applicants w 2 (5%): Places will be already achieved in mo S credits achieved, pla pplicant; among applic ces): lottery. sed only in the Bachel	logie (Biology) with 180 ECTS there will be two quotas: 95% a 180 ECTS credits and 5% of p ubject Biologie (Biology) with and Mathematik (Mathematic centially to students of other ' applications, the remaining pl mponent, several courses wit component. In this case, place dure. In this procedure, appli- bective module will be given p -allocated as they become av rimarily be allocated according to the number eir studies or of all module co Mathematik (Mathematics)) a ccording to their average grade ding to their total number of E calculated as the sum of these ith the same ranking, places allocated according to the fo odules/module components of acces will be allocated by lot. ( cants with the same number of cor's degree subject Biologie (	credits will be giv 6 of places will be places (a minimu 6 o ECTS credits s), each with 180 importing' subject aces will be alloct h a restricted nur ces on all courses cants who alread oreferential consider ailable. In the time of applican of ECTS credits the mponents in the at the time of applicant cetwo rankings, and will be allocated llowing quotas: Co of the Faculty of E Quota 2 (25 % of of subject semest	s will be allocated as follows: ven preferential consideration. e allocated to students of the Ba- m of one place in total) will be al- and to students of the Bachelor's o ECTS credits, as part of the appli- cts). Should the number of places cated to applicants from the other mber of places, there will be a uni- s of a module component that are ly have successfully completed at deration. nts' previous academic achieve- hey have achieved and their ave- subject of Biologie (Biology) (ex- olication. This will be done as fol- rding to the number of ECTS cre- eved (quantitative ranking). The nd places will be allocated accor- according to the qualitative ran- Quota 1 (50 % of places): total Biology; among applicants with places): number of subject seme- ters, places will be allocated by o ECTS credits, places will be allo-

07-4S1PS2-211-	Metho	ds in Pla	ant Ecoph	ysiolo	gy			
m01	ECTS	5	Duration	า	1 semester	Method of grading numerical grade	Modul level	undergraduate
	Course	.s		Ü (4)	+ S (1)			
	Metho	d of ass	essment			(approx. 45 to 60 minutes) or		
					(approx. 10 to 20	) pages) or one candidate each (approx. 30 minutes) or		
						groups of up to 3 candidates (approx. 20 minutes) of	es per candidate) or	
				e) pre	esentation (approx	x. 20 to 30 minutes) or	•	
				maxir		n (on average approx. 2 hours; time to complete Students will be informed about the method and		
		pants an		15 yes Shou Stude Shou chelo locate degre cation availa quota form conce least A wai Selec ments rage g cludin lows: dits (a applie ding t king o Selec numb the sa sters lot. Q Shou	Id the number of a ents of the Bachel ld the module be r's degree subject ed to students of the subjects Compu- n-oriented subject able in one quota a. Should there be regulation for the erned will be alloc one other module ting list will be ma tion process grou s. For this purpose grade of all assess ing Chemie (Chem First, applicants v qualitative rankin cants' position in to this third rankin or otherwise by lo tion process grou per of ECTS credits ame number of EC of the respective uota 3 (25 % of pl ld the module be	p 2 (5%): Places will be allocated according to the already achieved in modules/module compone TS credits achieved, places will be allocated by applicant; among applicants with the same num	ECTS credits will be give : 95% of places will be % of places (a minimu with 60 ECTS credits natics), each with 180 ther 'importing' subject ng places will be alloct swith a restricted nur , places on all courses applicants who alread ven preferential considered applicants who alread ven preferential considered available. ording to the applicant mber of ECTS credits the cs)) at the time of app grade weighted accou- er of ECTS credits achier these two rankings, are acces will be allocated he following quotas: Counts of the Faculty of E lot. Quota 2 (25 % of these of subject semest	ven preferential consideration. e allocated to students of the Ba- m of one place in total) will be al- and to students of the Bachelor's ECTS credits, as part of the appli- its). Should the number of places ated to applicants from the other nber of places, there will be a uni- s of a module component that are y have successfully completed at deration. ts' previous academic achieve- ney have achieved and their ave- subject of Biologie (Biology) (ex- lication. This will be done as fol- rding to the number of ECTS cre- eved (quantitative ranking). The nd places will be allocated accor- according to the qualitative ran- Quota 1 (50 % of places): total biology; among applicants with places): number of subject seme- ters, places will be allocated by

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07-4S1PS3-152-	Pharm	aceutic	al Drugs ii	1 Plants				
m01	ECTS	5	Duration	ו 1	semester	Method of grading numerical grade	Modul level	undergraduate
	Course	es		Ü (4) + S	5 (1)			
	Metho	d of ass	essment	<ul> <li>b) log (a</li> <li>c) oral e</li> <li>d) oral e</li> <li>e) prese</li> <li>f) praction</li> <li>maximu</li> <li>Student</li> </ul>	approx. 10 to 20 xamination of o examination in g entation (approx. cal examination m of 4 hours).	approx. 45 to 60 minutes) or pages) or ne candidate each (approx. 30 minutes) or roups of up to 3 candidates (approx. 20 minutes . 20 to 30 minutes) or (on average approx. 2 hours; time to complete w ed about the method and length of the assessme	vill vary according to	
		pants a of place		Student Should f chelor's located degree s cation-o availabl quota. S form reg concern least on A waitin Selectio ments. F rage gra cluding lows: Fin dits (qua applicar ding to t king or o Selectio number the sam sters of lot. Quo Should f	the number of a s of the Bachelo the module be u degree subject to students of th subjects Compu- oriented subject e in one quota e Should there be, gulation for the c ed will be alloca e other module g list will be ma in process group For this purpose de of all assess Chemie (Chemis rst, applicants w alitative ranking otherwise by lot. on process group of ECTS credits e number of ECT the respective a ta 3 (25 % of pla the module be u	2 (5%): Places will be allocated according to the already achieved in modules/module componen IS credits achieved, places will be allocated by lo pplicant; among applicants with the same numb	TS credits will be gives of places (a minimu vith 60 ECTS credits atics), each with 180 er 'importing' subject g places will be alloct with a restricted nur places on all courses oplicants who alread n preferential consider available. ding to the applicant ber of ECTS credits the solution of ECTS credits the solution of ECTS credits achies ese two rankings, and ese will be allocated efollowing quotas: C ts of the Faculty of Epote of subject semest	ven preferential consideration. e allocated to students of the Ba- m of one place in total) will be al- and to students of the Bachelor's ECTS credits, as part of the appli- ets). Should the number of places tated to applicants from the other mber of places, there will be a uni- s of a module component that are y have successfully completed at deration. ts' previous academic achieve- hey have achieved and their ave- subject of Biologie (Biology) (ex- dication. This will be done as fol- rding to the number of ECTS cre- eved (quantitative ranking). The nd places will be allocated accor- according to the qualitative ran- Quota 1 (50 % of places): total Biology; among applicants with places): number of subject seme- ters, places will be allocated by

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07-S1-LP1-152-m01	Laborat	tory Pra	ctical Cou	ırse l							
	ECTS	5	Duration	I	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses	S		P (5) Module taught in: German and/or English							
				b) log c) ora d) ora e) pre f) prac maxin Stude	a) written examination (approx. 45 to 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 of up to 3 candidates (approx. 20 minutes per candidate) or e) presentation (approx. 20 to 30 minutes) or f) practical examination (on average approx. 2 hours; time to complete will vary according to subject area but will not exceed a maximum of 4 hours). Students will be informed about the method and length of the assessment prior to the course. creditable for bonus						
	other pr		sites	Please	Please consult with course advisory service in advance.						
07-S1-Ex1-152-m01											
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses	S		E (2) Module taught in: German and/or English							
				<ul> <li>b) log (approx. 10 to 20 pages) or</li> <li>c) oral examination of one candidate each (approx. 30 minutes) or</li> <li>d) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) or</li> <li>e) presentation (approx. 20 to 30 minutes) or</li> <li>f) practical examination (on average approx. 2 hours; time to complete will vary according to subject area but will not exceed a maximum of 4 hours).</li> <li>Students will be informed about the method and length of the assessment prior to the course.</li> </ul>							
	other pr			Please consult with course advisory service in advance.							
	ECTS Courses	5 s		R (5)	1 semester le taught in: Gern	Method of grading	numerical grade	Modul level	undergraduate		
				<ul> <li>a) written examination (approx. 45 to 60 minutes) or</li> <li>b) log (approx. 10 to 20 pages) or</li> <li>c) oral examination of one candidate each (approx. 30 minutes) or</li> <li>d) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) or</li> <li>e) presentation (approx. 20 to 30 minutes) or</li> <li>f) practical examination (on average approx. 2 hours; time to complete will vary according to subject area but will not exceed a maximum of 4 hours).</li> <li>Students will be informed about the method and length of the assessment prior to the course.</li> <li>creditable for bonus</li> </ul>							
	other pr	rerequis	sites	Pleas	e consult with co	urse advisory service ir	advance.				
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Modules Special	Biosciences II External Practical Course										
07-5EP-152-m01	ECTS	10	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			P (1) Modu	lle taught in: Germa						
	Method of assessment			<ul> <li>a) written examination (approx. 45 to 60 minutes) or</li> <li>b) log (approx. 10 to 20 pages) or</li> <li>c) oral examination of one candidate each (approx. 30 minutes) or</li> <li>d) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) or</li> <li>e) presentation (approx. 20 to 30 minutes) or</li> <li>f) practical examination (on average approx. 2 hours; time to complete will vary according to subject area but will not exceed a maximum of 4 hours).</li> <li>Students will be informed about the method and length of the assessment prior to the course.</li> <li>Language of assessment: German and/or English creditable for bonus</li> </ul>							
	other prerequisites			Pleas	e consult with cour	se advisory service in	advance.				
07-S2-EX2-152-	Excursion II										
m01	ECTS 10 Duratio			n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			E (8) Module taught in: German and/or English							
	Method of assessment			<ul> <li>a) written examination (approx. 45 to 60 minutes) or</li> <li>b) log (approx. 10 to 20 pages) or</li> <li>c) oral examination of one candidate each (approx. 30 minutes) or</li> <li>d) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) or</li> <li>e) presentation (approx. 20 to 30 minutes) or</li> <li>f) practical examination (on average approx. 2 hours; time to complete will vary according to subject area but will not exceed a maximum of 4 hours).</li> <li>Students will be informed about the method and length of the assessment prior to the course.</li> <li>Language of assessment: German and/or English creditable for bonus</li> </ul>							
	other p	orerequi	sites	Pleas	e consult with cou	se advisory service in	advance.				

07-S2-IP2-152-m01	Interdis	sciplina	ry Project	: 11							
	ECTS	10	Duration	l	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	5		R (8) Modu	lle taught in: Germa	an and/or English					
				b) log c) ora d) ora e) pre f) pra- maxir Stude Langu credit	) written examination (approx. 45 to 60 minutes) or ) log (approx. 10 to 20 pages) or ) oral examination of one candidate each (approx. 30 minutes) or ) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) or ) oral examination (approx. 20 to 30 minutes) or presentation (approx. 20 to 30 minutes) or practical examination (on average approx. 2 hours; time to complete will vary according to subject area but will not exceed a naximum of 4 hours). tudents will be informed about the method and length of the assessment prior to the course. anguage of assessment: German and/or English reditable for bonus						
	other p				e consult with cour	rse advisory service ir	n advance.				
07-S2-LP2-152- m01		<u> </u>	Duratior								
	ECTS 10 Duration		P (8)								
	Courses	5		Module taught in: German and/or English							
	Method of assessment			<ul> <li>a) written examination (approx. 45 to 60 minutes) or</li> <li>b) log (approx. 10 to 20 pages) or</li> <li>c) oral examination of one candidate each (approx. 30 minutes) or</li> <li>d) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) or</li> <li>e) presentation (approx. 20 to 30 minutes) or</li> <li>f) practical examination (on average approx. 2 hours; time to complete will vary according to subject area but will not exceed a maximum of 4 hours).</li> <li>Students will be informed about the method and length of the assessment prior to the course.</li> <li>Language of assessment: German and/or English creditable for bonus</li> </ul>							
	other p	rerequi	sites	Please consult with course advisory service in advance.							
Focus Chemistry (30	o ECTS o	redits)									
Compulsory (21 ECT	S credit	ts)									
o8-AC-Ex-	Experin	nental (	Chemistry								
Chem-152-m01	ECTS	5	Duratior	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
ĺ	Course	S		V (4)							
				written examination (approx. 90 minutes) Language of assessment: German and/or English							

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08-0C1-152-m01	Organi	c Chem	istry 1								
	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	s		V (3) ·	√ (3) + Ü (1)						
	Methoo	d of ass	essment	<ul> <li>a) written examination (approx. 90 to 180 minutes) or</li> <li>b) oral examination of one candidate each (20 to 30 minutes) or</li> <li>c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or</li> <li>d) log (approx. 20 pages) or</li> <li>e) presentation (approx. 30 minutes)</li> <li>Language of assessment: German and/or English</li> </ul>							
	Additio	Additional Information			according to § 2 para. 2 sentence 2 APOLmCh in conjunction with No. I 2nd letter b) of annex 1 to the APOLmCh and No. 2 of annex 2 to the APOLmCh						
	Referre	d to in	LPO I	§ 62	Nr. 2						
o8-PC-QMS-	Princip	les of q	juantum m	iechar	ics and spectrosco	opy for engineering stu	udents				
FU-152-m01	ECTS	8	Duration	າ	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	-		110	+ Ü (2)						
	Method of assessment			a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English creditable for bonus							
08-TC-152-m01	Quantum Chemistry										
	ECTS	3	Duration	۱	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V (2)	V (2) + Ü (1)						
	Methoo	l of ass	essment	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English creditable for bonus							
	Referre	d to in	LPO I	§ 22    Nr. 1 h) § 22    Nr. 2 f) § 22    Nr. 3 f)							

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Compulsory Election	ves (9 EC	TS cred	lits)								
08-0C2-152-m01	Organi	ic Chem	istry 2 an	d anal	ytical methods in o	rganic chemistry					
	ECTS	9	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Course	es		V (3)	V(3) + U(1) + V(2)						
	Metho	d of ass	essment	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English							
08-PC-TKE-152-	Thermodynamics, Kinetics, Electrochemistry										
m01	ECTS	9	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Course	es		V (4)	+ Ü (2)						
	Method of assessment			a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English creditable for bonus							
	Referre	ed to in	LPO I	§ 62   Nr. 1							
08-PC-SBL-152-	Symme	etry, ch	emical bo	nding	and light						
m01	ECTS	9	Duratio	n	2 semester	Method of grading numerical grade	Modul level	undergraduate			
	Course	es		V (3)	$V(3) + \ddot{U}(2) + V(2) + \ddot{U}(2)$						
	Method of assessment			a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English							

08-AS1-152-m01	Inorganic Cher	Inorganic Chemistry of the Elements										
	ECTS 6	Duration	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		V (2) -	+ V (2)	·							
	Method of asse	essment	<ul> <li>b) oral examination of one candidate each (20 to 30 minutes) or</li> <li>c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or</li> <li>d) log (approx. 20 pages) or</li> <li>e) presentation (approx. 30 minutes)</li> <li>Language of assessment: German and/or English</li> </ul>									
	Additional Info	ormation	according to § 2 para. 2 sentence 2 APOLmCh in conjunction with No. I 2nd letter a) of annex 1 to the APOLmCh and No. 1 of annex 2 to the APOLmCh									
	Referred to in L	PO I	§ 62 I	Nr. 1								
Focus Geography (	30 ECTS credits)	)										
04-Geo-PG1Ex-152-	General Physic	cal Geogra	aphy: E	Exogenic Dynamics	- Geomorphology							
m01	ECTS 5	Duration	I	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses			V (3) + T (1) Nodule taught in: German and/or English								
	Method of asse	essment	written examination (approx. 45 minutes) Language of assessment: German and/or English creditable for bonus									
	Referred to in L	PO I	§ 47   § 66									
o4-Geo-	General Physical Geography: Endogenic Dynamics - Introduction to Geology											
PG1En-152-m01	ECTS 5	Duration	ו	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		V (3) - Modu	+ T (1) le taught in: Germa	n and/or English							
	Method of asse	essment	written examination (approx. 45 minutes) Language of assessment: German and/or English creditable for bonus									
	Referred to in L	_PO I	§ 47   Nr. 1 § 66   Nr. 1									
04-Geo-PG1Kl-152-	General Physic	cal Geogra	aphy: (	Climate System								
m01	ECTS 5	Duration	<u>ו</u>	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses	_		V (3) Module taught in: German and/or English								
	Method of asse	essment		n examination (app lage of assessment	rox. 45 minutes) : German and/or Eng	lish						
	Referred to in L	PO I	§ 47   § 66									

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04-Geo-HG1S-152-	General	Humar	n Geogra	phy: In	troduction to the Ge	ography of Cities, Towns and Villages					
m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses			V (3) Modu	V (3) Module taught in: German and/or English						
	Method	ofasse	essment		written examination (approx. 45 minutes) Language of assessment: German and/or English						
	Referred	l to in L	PO I		§ 47   Nr. 1 § 66   Nr. 1						
04-Geo-HG1W-152-	General Human Geography: Introduction to Economic Geography										
m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses			V (3) Modu	V (3) Module taught in: German and/or English						
	Method of assessment				written examination (approx. 45 minutes) Language of assessment: German and/or English						
	Referred to in LPO I			§ 47   § 66							
04-Geo-HG1B-152-	General Human Geography: Introduction to Social and Population Geography										
m01	ECTS 5 Duratio		n	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Courses			V (3) Module taught in: German and/or English							
	Method of assessment			written examination (approx. 45 minutes) Language of assessment: German and/or English							
	Referred	l to in L	PO I	§ 47   Nr. 1 § 66   Nr. 1							
04-Geo-KART-152-	Cartogra	aphy ar	nd Geoini	ormation							
m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses	Courses			V (2) + T (2) Module taught in: German and/or English						
	Method	of asse	essment	written examination (approx. 75 minutes) Language of assessment: German and/or English creditable for bonus							
	Referred	l to in L	PO I	§ 66 I	Nr. 2						

04-Geo-FER-	Introduc	duction to Geographical Remote Sensing									
NE-152-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			V (2) + T (2)							
				Module taught in: German and/or English							
	Method	ofass	essment								
				Language of assessment: German and/or English creditable for bonus							
	Referred	l to in l	POI		§ 66   Nr. 2						
04-Geo-FER-			-	Sensing in Geography							
NA-152-mo1	<u> </u>	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses	-			+ T (2)						
				Mòdu	Module taught in: German and/or English						
	Method	ofass	essment		n examination (ap						
						it: German and/or Engl	ish				
	Decienc	creditable for bonus       Regional Geography - Lecture course 1									
04-Geo-RG-V1-152- m01		-			(				Lundamona durata		
mor	ECTS 5 Duratio			n V (2)	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			Module taught in: German and/or English							
	Method of assessment			a) wri	tten examination (	approx. 45 minutes) or					
				b) oral examination of one candidate each (approx. 15 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate)							
				Language of assessment: German and/or English							
	Referred	l to in L	.PO I	§ 47 l Nr. 2							
					§ 66   Nr. 1						
04-Geo-RG-V2-152-	Regiona	l Geog	raphy - L	ecture course 2							
m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			V (2)	2						
				Module taught in: German and/or English							
	Method	ofass	essment		a) written examination (approx. 45 minutes) or						
				b) oral examination of one candidate each (approx. 15 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate)							
						it: German and/or Engl					
	Referred	l to in L	.PO I	§ 47 I							
				§ 66 I	Nr. 1						

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Focus Computer So	ience (3	o ECTS	credits)								
10-I-GdP-172-m01	Fundar	nentals	of Progra	mming	g						
	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V (2) ·	+ Ü (2)	•		·			
	Methoo	d of asse	essment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). creditable for bonus							
	Referre	d to in L	PO I		Nr. 1 b) Nr. 1 b)						
10-I-ADS-152-m01	Algorit	hms and	d data str	ucture	S						
	ECTS	10	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V (4) ·	+ Ü (2)						
	Method of assessment			written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). creditable for bonus							
	Referred to in LPO I			§ 49   Nr. 1 a) § 69   Nr. 1 a)							
10-I-ST-152-m01	Softwa	re Tech	nology								
	ECTS	10	Duration	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V (4) ·	+ Ü (2)						
	Method	d of asse	essment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). creditable for bonus							
	Referre	d to in L	.PO I	§ 49   Nr. 1 b) § 69   Nr. 1 b)							

10-I-PP-191-m01	<b>Practical Cours</b>	e in Prog	rammi	ng							
	ECTS 10	Duratio	n		Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses		P (6)	(6)							
	Method of asse	essment	practical examination (programming exercises, approx. 240 hours) and written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date).								
	other prerequis	sites		ntended learning outcomes of the following module are required: 10-I-GdP. It is therefore strongly recommended to complete nis before.							
	Referred to in L		§ 69 I	49   Nr. 1 c) 69   Nr. 1 d)							
10-I-SWP-152-m01	Practical cours	e in softv	vare								
	ECTS 10	Duratio		1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses		P (6)								
	Method of asse		prox.	actical project (Completion of a larger software project in groups (approx. 300 hours per person) and final presentation (ap- ox. 10 minutes per group)							
	Modules succe completed	ssfully		P, 10-I-ST							
	other prerequis		highly	/ recommended.	e and skills acquired	in module 10-I-ADS are require	ed. Prior attenda	ance of this module is therefore			
	Referred to in L	.PO I	§ 69 I	Nr. 1 d)							
10-I-RAL-152-m01	Digital comput	er systen									
	ECTS 10	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V (4) -	+ Ü (2)							
	Method of asse		If ann of one date). credit	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). creditable for bonus							
10-I-RIÜ-191-m01	Computer Netw	vorks and	l Inforr	nation Transmissio							
	ECTS 10 Duration			1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V (4) ·	+ Ü (2)							
	Method of asse		If ann of one date). credit	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). creditable for bonus § 22 II Nr. 3 b), § 69   Nr. 1 c)							
	Referred to III E		3 2 2 1	, 3 09 T NI.	,						

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10-I-HWP-152-m01	Practic	Practical course in hardware										
	ECTS	10	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Course	S		P (6)	~			*				
	Method	d of asse	essment			pprox. 3 to 10 project	assignments (approx. 250 hou	urs total) and pi	resentation of results (approx. 10			
					inutes per project)							
		d to in L		§ 22	22 II Nr. 3 b)							
10-I-TIV-152-m01		tical Inf	ormatics									
	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	-		V (4)	. <u> </u>							
	Method	d of asse	essment			ox. 60 to 120 minute			na la calle da calle			
									replaced by an oral examination			
				date).	ne candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- e).							
	Referre	d to in L	PO I	§ 49 I	Nr. 1 a)							
				- /	Nr. 1 a)							
10-I-TIT-191-m01		l Theore	etical Info	ormatic	S							
	ECTS	5	Duratio		1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Course	S		Ü (2)								
	Method	d of asse	essment		a) exercises (consisting in completion of approx. 11 home work exercise sheets, presentation of own solutions in the exercise							
				groups as well as approx. 5 short assessments written in the exercise group) or b) written examination (approx. 180 to 240 minutes)								
				Die Prüfungsart ist vom Prüfling festzulegen								
10-I-LOG-152-m01	Logic f	or inforn	natics									
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S	,	V (2) -	+ Ü (2)							
	Method	d of asse	essment			ox. 60 to 120 minute						
									replaced by an oral examination			
				of one date).	e candidate each (ap	prox. 20 minutes) or	an oral examination in groups	of 2 candidates	s (approx. 15 minutes per candi-			
					age of assessment:	German and/or Engli	ish					
					able for bonus		-					
	Referre	d to in L	PO I	§ 22	I Nr. 3 b)							

10-I-AGT-152-m01	Alg	lgorithmic Graph Theory											
	ECT	S 5		Duratior	ı	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Cou	irses			V (2) ·	+ Ü (2)			,				
					If ann of one date). Langu credit	vritten examination (approx. 60 to 120 minutes). f announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). .anguage of assessment: German and/or English creditable for bonus							
	Refe	erred	to in L	POI	§ 22	l Nr. 3 b)							
10-l=lCG-161-m01	Inte	eractiv	/e Con	nputer Gr	aphics								
	ECT	S 5		Duratior		1 semester	Method of grading	numerical grade	Modul level	graduate			
		irses				+ Ü (2)							
	Method of assessment				written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Separate written examination for Master's students. Language of assessment: German and/or English creditable for bonus								
	Add	litiona	al Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): HCI.								
10-I-DB-152-m01		abase	es										
	ECT	S 5		Duratior		1 semester	Method of grading	numerical grade	Modul level	undergraduate			
		irses				+ Ü (2)							
	Met	hod c	of asse	essment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus								
	Refe	erred	to in L	PO I		Nr. 1 b) Nr. 1 b)							

10-I-WBS-152-m01	Knov	owledge-based Systems											
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Cour	ses		V (2) ·	(2) + Ü (2)								
			essment	If ann of one date) Langu credit	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus								
	Refe	red to in	LPO I	§ 22	l Nr. 3 b)								
10-I-DM-152-m01	Data	Mining											
	ECTS	5	Duratio		1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Cour	ses		V (2) ·	) + Ü (2)								
			essment	If ann of one date) Langu credit	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus								
	Refe	red to in	LPO I	§ 22	§ 22    Nr. 3 b)								
10-I-KT-191-m01			l Complex										
	ECTS	5	Duratio	·	1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Cour			• • •	V (2) + Ü (2)								
			essment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus									
	Refei	red to in	LPO I	§ 22	l Nr. 3 b)								

10-I-KD-191-m01	Cryptography and Data Security												
	ECTS	5	Duratior	ı	1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Course	95		V (2) +	+ Ü (2)								
				written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus									
	Referre	ed to in l	POI	§ 22	Nr. 3 b)								
10-l-3D-152-m01	3D Poi	nt Cloud	l Processi	ng									
	ECTS	5	Duratior	1	1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Course	s		V (2) +	⊦Ü (2)								
	Method of assessment			written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus									
	Referre	ed to in l	POI	§ 22 II Nr. 3 b)									
10-I-BS-191-m01		ing Sys	tems										
	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Course	S		V (2) - Modu	⊦Ü (2) le taught in: English								
	Metho	d of ass		written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus									

10-I-RAK-152-m01	Computer Arc	hitecture								
	ECTS 5	Duration	n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses		V (2) -	/ (2) + Ü (2)						
	Method of as	sessment	lf ann of one date). Langu	written examination (approx. 60 to 120 minutes). f announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus						
	Referred to in	LPO I		22 ll Nr. 3 b) 69 l Nr. 1 c): Rechnerarchitektur						
10-I-SKS-191-m01	<b>Control Princi</b>	ples of Mo	odern C	ommunication Sys	stems					
	ECTS 8	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses		V (4) -	+ Ü (2)		,				
	Method of as:	sessment	lf ann of one date). Langu	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus						
10-I-AR-152-m01	Automation a	nd Control								
	ECTS 8	Duration	<u>1</u>	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses		V (4) -	+ Ü (2)						
	Method of as	sessment	lf ann of one date). Langu	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus						
	Referred to in	LPO I	§ 22	l Nr. 3 b)						
10-I-MCS-191-m01	Introduction i	nto Humai	n-Comp	outer Interaction						
	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses		V (3) -	⊦Ü (1)						
	Method of as:	sessment	lf ann of one date). Langu	written examination (approx. 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-						

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10-I-SEC-191-m01	IT Se	Security											
	ECTS	5 5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Cour	ses			(2) + Ü (2)								
					Nodule taught in: German and/or English								
	Meth	nod of ass	essment		rritten examination (approx. 60 to 120 minutes). announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination								
					f one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-								
				date).									
10-l-Gl-152-m01	مام	cted Basic	s of Com			_							
10-1-01-152-11101	Selected Basics of ComECTS5Duration				1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Cour	_	Duration	۱ V (4) +		Method of grading	numencui giude	Modulievei	undergraduate				
		nod of ass	essment			orox. 60 to 120 minute	(c)						
	meer	100 01 055	cooncil	lf ann	ounced by the lectu	urer at the beginning o	of the course, the written exam		replaced by an oral examination				
						pprox. 20 minutes) or	r an oral examination in groups	of 2 candidates	s (approx. 15 minutes per candi-				
				date).	rej. nguage of assessment: German and/or English								
					able for bonus	. German and/or Engi	1511						
Focus Philosophy (	30 EC	TS credits	)										
06-Ph-B-P1/1-152-	Intro	duction to	) Philosop	ohy									
m01	ECTS	5 5	Duratio	1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate				
	Cour	ses		V (2) +	⊦Ü (2)								
	Meth	nod of ass	essment	writte	written examination (90 minutes)								
06-Ph-B-P1/2-152-			chs, main	works, authors									
m01	ECTS	5 5	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Cour			S (2)									
					oral examination (approx. 25 minutes)								
06-Ph-B-P2/1-152-		osophical	<u> </u>		ences l								
m01	ECTS	5 5	Duratio		1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate				
	Cour		_	V (2)									
		nod of ass			n examination (45 r			_					
		cipants ar							of applications exceed the num-				
	catio	on of place	S		ber of available places, places will be allocated according to the number of subject semesters. Among applicants with the sa- me number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by								
					they become availa								

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06-Ph-B-P2/2-152-	Philoso	ophical	principles	s of sc	iences II							
m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		S (2)	(2)							
	Method	d of asso	essment	writte	written examination (90 minutes)							
06-Ph-B-P3/1-152-	Theore	tical Ph	ilosophy	I								
m01	ECTS	5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses			V (2)	2)							
	Method	d of ass	essment	writte	written examination (45 minutes)							
	Particip cation o			ber o me n	only as part of pool of general transferable skills (ASQ): max. 20 places. Should the number of applications exceed the num- er of available places, places will be allocated according to the number of subject semesters. Among applicants with the sa- ne number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by ot as they become available.							
06-Ph-B-P4/1-152-	Practic	al Philo	sophy I									
m01	ECTS	5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Course	s		V (2)		•		•				
	Method	d of asso	essment	writte	vritten examination (45 minutes)							
	Participants and allo- cation of places			ber o me n	f available places, pl	laces will be allocate nesters, places will b	d according to the number of s	ubject semeste	of applications exceed the num- rs. Among applicants with the sa- ined and places re-allocated by			
06-Ph-B-P5/1-152-	History of Philosophy I											
m01	ECTS	5	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Course			V (2)								
	Method	d of ass	essment		written examination (45 minutes)							
	Particip cation (			Only as part of pool of general transferable skills (ASQ): max. 20 places. Should the number of applications exceed the r ber of available places, places will be allocated according to the number of subject semesters. Among applicants with the me number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated lot as they become available.								
06-Ph-B-P6/1-152-	Issues	of resea	arch in ph	ilosop	ohy I							
m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	s		S (2)								
	Method	d of ass	essment	oral e	examination (approx.	. 25 minutes)						
06-Ph-B-W1-152-	Text An	alysis:	Ancient F	Philoso	ophy							
m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		S (2)								
	Method	d of ass	essment	writte	en examination (appi	rox. 90 minutes) or te	erm paper (10 to 12 pages)					
	Referre	d to in L	PO I		l Nr. 2 a) Nr. 2 f)							
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06-Ph-B-W2-152-	Text Analys	sis: Medieval	ll Philosophy						
m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses		S (2)	5 (2)					
	Method of	assessment	writte	written examination (90 minutes) or term paper (10 to 12 pages)					
06-Ph-B-W3-152-	Text Analys	sis: Modern F	Philoso	phy					
m01	ECTS 5 Duratio		n	1 semester     Method of grading     (not) successfully completed		Modul level	undergraduate		
	Courses		S (2)	(2)					
	Method of	assessment	portfo	portfolio: 2 to 3 essays (approx. 10 pages total)					
06-Ph-B-W4-152-	Text Analys	sis: Contemp	orary F	Philosophy					
m01	ECTS 5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate	
	Courses		S (2)						
					pprox. 10 pages total				
06-Ph-B-W5-152-		<u> </u>		l philosophy: Meta	physics and Epistemo				
m01	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses		S (2)						
	Method of assessment				es)				
	Referred to in LPO I		§ 32 l Nr. 1 c)						
06-Ph-B-W6-152-	Specific dis	sciplines of t	heoreti	neoretical philosophy					
m01	ECTS 5 Duratio			1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses		S (2)						
	Method of assessment		term paper (10 to 12 pages)						
	Referred to	in LPO I	§ 32   Nr. 1 c)						
06-Ph-B-W7-152-		plines of pra	ctical p	hilosophy					
m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses		S (2)						
	Method of	assessment	term p	paper (10 to 12 page	es)				
	Referred to in LPO I		§ 32 l	Nr. 1 c)					
06-Ph-B-W8-152-	Specific dis	sciplines of p	oractica	l philosophy					
m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses		S (2)						
	Method of	assessment	term p	paper (10 to 12 page	es)				
	Referred to	in LPO I	§ 32 l	Nr. 1 c)					

06-Ph-B-W10-152-	Problems of	Problems of Modern Philosophy										
m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		S (2)									
	Method of assessment		oral e	examination (appro	ox. 25 minutes)							
	Referred to in	Referred to in LPO I		§ 32   Nr. 1 c)								
06-Ph-B-W11-152-	Problems of Theoretical Philosophy											
m01	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		S (2)									
				portfolio: 2 to 3 essays (approx. 10 pages total)								
06-Ph-B-W12-152-	Problems of	r		phy								
m01	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		S (2)									
	Method of as	sessment	portfo	portfolio: 2 to 3 essays (approx. 10 pages total)								
Focus Physics (30	ECTS credits)											
<b>Compulsory Course</b>	es (14 ECTS cro	edits)										
11-ENNF1-152-m01	Classical Physics 1 for Students of Physics related Disciplines											
	ECTS 7	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		V (4) + Ü (2) Module taught in: Ü: German or English									
	Method of as	sessment	written examination (approx. 120 minutes) Language of assessment: German and/or English									
	other prereq	uisites	Admission prerequisite to assessment: completion of exercises (approx. 13 exercise sheets per semester). Students who successfully completed approx. 50% of exercises will qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the semester.									
	Additional In	formation	Registration: If a student registers for the exercises and obtains the qualification for admission to assessment, this will be considered a declaration of will to seek admission to assessment pursuant to Section 20 Subsection 3 Sentence 4 ASPO (general academic and examination regulations). If the module coordinators subsequently find that the student has obtained the qualification for admission to assessment, they will put the student's registration for assessment into effect. Only those students that meet the respective prerequisites can successfully register for an assessment. Students who did not register for an assessment or whose registration for an assessment was not put into effect will not be admitted to the respective assessment. If a student takes an assessment to which he/she has not been admitted, the grade achieved in this assessment will not be considered.									

11-ENNF2-152-m01	O1 Classical Physics 2 for Students of Physics related Disciplines											
2	ECTS 7 Duration			n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	5			V (4) + Ü (2) Module taught in: Ü: German or English							
	Method of assessment other prerequisites				written examination (approx. 120 minutes) Language of assessment: German and/or English							
				succe	Admission prerequisite to assessment: completion of exercises (approx. 13 exercise sheets per semester). Students who successfully completed approx. 50% of exercises will qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the semester.							
	Additio	nal Info	rmation	consi neral the qu stude for an sessn	dered a declaration academic and exam Jalification for admi nts that meet the re- assessment or who	of will to seek admis ination regulations). ssion to assessment spective prerequisite se registration for ar	If the module coordinators sub , they will put the student's reg es can successfully register for assessment was not put into o	o Section 20 Su osequently find istration for ass an assessment. effect will not be	bsection 3 Sentence 4 ASPO (ge- that the student has obtained essment into effect. Only those			
<b>Compulsory Electiv</b> Students must take				or the t	wo modules 11-P-PA	and 11-P-FR1. Other	combinations are not permitted	1.				
11-PNNF-152-m01	Laboratory Course Physics for Students of Physics Related Disciplines											
	ECTS	3	Duration	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses	5		P (4)								
	Method	l of ass		Each			15 minutes, during experiment prmance and evaluation. Test a		n examination (90 minutes). nance of experiments can each			
11-P-PA-152-m01	Laborat	tory Co	urse Phys	ics A (	Mechanics, Heat, El	ectromagnetism)						
	ECTS	3	Duration	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses	5		P (2)	2							
	Method of assessment			Prepa pleted comp sics-r	practical assignment with talk (approx. 30 minutes) Preparing, performing and evaluating (record of readings or lab report) the experiments will be considered successfully com- pleted if a Testat (exam) is passed. Exactly one experiment that was not successfully completed can be repeated once. After completion of all experiments, talk (with discussion; approx. 30 minutes) to test the candidate's understanding of the phy- sics-related contents of the module. Talks that were not successfully completed can be repeated once. Both components of the assessment have to be successfully completed.							

11-P-FR1-152-m01	Data and Error Analysis											
	ECTS 2 Durati	on 1 semester Method of grading (not) successfully completed Modul level undergraduate										
	Courses	V (1) + Ü (1) Module taught in: Ü: German or English										
	Method of assessmen	written examination (approx. 120 minutes) Language of assessment: German and/or English										
	other prerequisites	Admission prerequisite to assessment: completion of exercises (approx. 13 exercise sheets per semester). Students who successfully completed approx. 50% of exercises will qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the semester.										
	Additional Informatior	Registration: If a student registers for the exercises and obtains the qualification for admission to assessment, this will be considered a declaration of will to seek admission to assessment pursuant to Section 20 Subsection 3 Sentence 4 ASPO (general academic and examination regulations). If the module coordinators subsequently find that the student has obtained the qualification for admission to assessment, they will put the student's registration for assessment into effect. Only those students that meet the respective prerequisites can successfully register for an assessment. Students who did not register for an assessment or whose registration for an assessment was not put into effect will not be admitted to the respective assessment. If a student takes an assessment to which he/she has not been admitted, the grade achieved in this assessment will not be considered.										
	Referred to in LPO I	§ 53   Nr. 1 c) § 77   Nr. 1 d)										
11-P-NFB-152-m01	Laboratory Course Phy	ics B for Students of other Disciplines										
	ECTS 4 Durati	on 1 semester Method of grading (not) successfully completed Modul level undergraduate										
	Courses	P (2)										
	Method of assessmen	Preparing, performing and evaluating (record of readings or lab report) the experiments will be considered successfully com- pleted if a Testat (exam) is passed. Exactly one experiment that was not successfully completed can be repeated once. After completion of all experiments, talk (with discussion; approx. 30 minutes) to test the candidate's understanding of the phy- sics-related contents of the module. Talks that were not successfully completed can be repeated once. Both components of the assessment have to be successfully completed.										
	other prerequisites	Students are highly recommended to complete modules 11-P-PA and 11-P-FR1 prior to completing module 11-P-NFB.										
<b>Compulsory Electiv</b>	es 2 (7 ECTS credits)											
11-E-O-152-m01	<b>Optics and Waves</b>											
	ECTS 8 Durati	on 1 semester Method of grading numerical grade Modul level undergraduate										
	Courses	V (4) + Ü (2) Module taught in: Ü: German or English										
	Method of assessmen	written examination (approx. 120 minutes) Language of assessment: German and/or English										

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11-E-A-152-m01	Atoms and Quanta									
	ECTS	8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Course	!S			+ Ü (2)		·			
					lle taught in: Ü: Ger	-				
	Metho	d of ass	essment		n examination (app		lich			
11-E-F-152-m01	Language of assessment: German and/or English           Introduction to Solid State Physics									
11 2 1 192 1101	ECTS	8	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Course		Durutio		+ Ü (2)	- method of Stading	numerical State	modulievel	undergraduate	
				Module taught in: Ü: German or English						
	Method of assessment				written examination (approx. 120 minutes) Language of assessment: German and/or English					
11-E-T-152-m01	Nuclea	r and El	ementary	Partic	le Physics					
	ECTS	6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses			V (3) + Ü (1) Module taught in: Ü: German or English						
	Method of assessment			written examination (approx. 120 minutes) Language of assessment: German and/or English						
11-T-M-152-m01	Theoretical Mechanics									
	ECTS	8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses			V (4) + Ü (2) Module taught in: Ü: German or English						
	Method of assessment			written examination (approx. 120 minutes) Language of assessment: German and/or English						
				Admission prerequisite to assessment: completion of exercises (approx. 13 exercise sheets per semester). Students who successfully completed approx. 50% of exercises will qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the semester.						
	Additio	onal Info	ormation	Registration: If a student registers for the exercises and obtains the qualification for admission to assessment, this will be considered a declaration of will to seek admission to assessment pursuant to Section 20 Subsection 3 Sentence 4 ASPO (general academic and examination regulations). If the module coordinators subsequently find that the student has obtained the qualification for admission to assessment, they will put the student's registration for assessment into effect. Only those students that meet the respective prerequisites can successfully register for an assessment. Students who did not register for an assessment or whose registration for an assessment was not put into effect will not be admitted to the respective assessment. If a student takes an assessment to which he/she has not been admitted, the grade achieved in this assessment will not be considered.						

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11-T-Q-152-m01	Quantum Mechanics										
	ECTS 8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	î	V (4) - Modu	V (4) + Ü (2) Module taught in: Ü: German or English							
	Method of as	ssessment	written examination (approx. 120 minutes) Language of assessment: German and/or English								
	other prereq	uisites	succe	Admission prerequisite to assessment: completion of exercises (approx. 13 exercise sheets per semester). Students who successfully completed approx. 50% of exercises will qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the semester.							
	Additional Ir	nformation	consi neral the qu stude for an sessn	egistration: If a student registers for the exercises and obtains the qualification for admission to assessment, this will be onsidered a declaration of will to seek admission to assessment pursuant to Section 20 Subsection 3 Sentence 4 ASPO (ge- eral academic and examination regulations). If the module coordinators subsequently find that the student has obtained ne qualification for admission to assessment, they will put the student's registration for assessment into effect. Only those tudents that meet the respective prerequisites can successfully register for an assessment. Students who did not register for an assessment or whose registration for an assessment was not put into effect will not be admitted to the respective as- essment. If a student takes an assessment to which he/she has not been admitted, the grade achieved in this assessment will not be considered.							
11-T-S-152-m01	Statistical Physics										
	ECTS 8 Duration		n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V (4) + Ü (2) Module taught in: Ü: German or English								
	Method of as	ssessment	written examination (approx. 120 minutes) Language of assessment: German and/or English								
11-T-E-152-m01	Electrodyna	mics									
	ECTS 8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V (4) + Ü (2) Module taught in: Ü: German or English								
	Method of as	ssessment	written examination (approx. 120 minutes) Language of assessment: German and/or English								
Focus Economics (	30 ECTS credit	ts)									
12-EBWL-G-212-	Organizatio	n									
m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V (2) ·	+ T (2)							
	Method of assessment			written examination (approx. 60 minutes) Language of assessment: German and/or English							

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12-ExtUR-G-212-	Accounti	ing		1						
m01	ECTS 5	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses			V (2) ·	(2) + T(2)					
	Method o	of asse	ssment			prox. 60 minutes)				
				Langu	lage of assessme	nt: German and/or Engli	sh			
12-IntUR-G-212- mo1	Managerial Accounting									
	ECTS 5	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses			V (2) ·						
	Method o	of asse	essment			prox. 60 minutes) nt: German and/or Engli	sh			
12-Mik1-G-212-	Microeco	onomic	S 1		_					
m01	ECTS 5	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses			V (2) ·	+ T (2)					
	Method of assessment		essment		written examination (approx. 60 minutes) Language of assessment: German and/or English					
12-Mik2-G-212-	Microeco	onomic	5.2	Lungu			511			
m01	ECTS 5 Duratio		-	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses		2 41 41 0	V (2) ·						
	Method of assessment									
				Language of assessment: German and/or English						
12-Mak1-G-212-	Macroeconomics 1									
m01	ECTS 5 Duratio		Duratio			Method of grading	numerical grade	Modul level	undergraduate	
	Courses			V (2) + T (2)						
	Method of assessment			written examination (approx. 60 minutes) Language of assessment: German and/or English						
12-Mak2-G-212-	Macroec	onomi	CS 2			, 3				
m01	ECTS 5	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses			V (2) ·	+ T (2)				-	
	Method o	of asse	ssment	written examination (approx. 60 minutes)						
				Language of assessment: German and/or English						
12-BPL-G-212-m01					tions Managemer					
	ECTS 5	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses			V (2) ·						
	Method of assessment			written examination (approx. 60 minutes) Language of assessment: German and/or English						

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12-l&F-G-212-m01	Investment a	nd Finance	5						
	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Courses		V (2)	+ T (2)					
	Method of as	sessment		en examination (app					
		1	Language of assessment: German and/or English						
12-Mark-G-212-	Marketing	1							
m01	ECTS 5	Duratio		1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Courses			+ T (2)					
	Method of as	sessment		en examination (app uage of assessment	rox. 60 minutes) : German and/or English				
12-WiPo-G-212-	Public Policy								
m01	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Courses		V (2) + T (2) Module taught in: German and/or English						
	Method of assessment		a) written examination (approx. 60 minutes) or b) portfolio (approx. 20 pages) Language of assessment: German and/or English						
12-EWiinf-G-212-	Business Informatics								
m01	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Courses		V(2) + T(2)						
	Method of assessment		written examination (approx. 60 minutes) Language of assessment: German and/or English creditable for bonus						
12-Ebus-F-212-mo1	E-Business								
	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Courses		V (2)	V (2) + T (2)					
	Method of as	sessment	b) ter c) ter d) ora	a) written examination (approx. 60 minutes) or b) term paper (approx. 15 pages) or c) term paper (approx. 10 pages) and presentation (approx. 10 minutes); (weighted 2:1) or d) oral examination in groups of up to 3 candidates (approx. 10 minutes per candidate) Language of assessment: German and/or English					

Key Skills Area (20	ECTS credits)									
General Key Skills										
		dents may also take modules offered by JMU as part of the pool of general transferable skills (ASQ).								
General Key Skills										
10-M-Tu- Ko-152-mo1		reading in Mathematics								
	ECTS 5 Duratio									
	Courses	T (o)								
	Method of assessment	Assessment of tutoring activities or correcting work by supervising lecturers or exercise supervisors (1 to 2 teaching units or approx. 5 pieces of correcting work)								
	Additional Information	Please direct application to teaching coordinator Mathematics, he/she will select participants.								
	Referred to in LPO I	§ 22 II Nr. 3 f)								
10-M-VHB1-152-	E-Learning and Blended	Learning Mathematics 1								
m01	ECTS 2 Duratio	n 1 semester Method of grading (not) successfully completed Modul level undergraduate								
	Courses	Ü (2) Course type: eLearning, mostly Virtuelle Hochschule Bayern (vhb)								
	Method of assessment	project (web-based, 15 to 20 hours) Assessment offered: Once a year, winter semester								
10-M-VHB2-152-	E-Learning and Blended Learning Mathematics 2									
m01	ECTS 2 Duratio	n 1 semester Method of grading (not) successfully completed Modul level undergraduate								
	Courses	Ü (2) Course type: eLearning, mostly Virtuelle Hochschule Bayern (vhb)								
	Method of assessment	project (web-based, 15 to 20 hours) Assessment offered: Once a year, summer semester								
Subject-specific Ke	ey Skills (15 ECTS credits)									
Subject-specific Ke	ey Skills, Compulsory Co	urses (11 ECTS credits)								
10-M-COM-152-	Computational Mathem	atics								
m01	ECTS 4 Duratio	n 1 semester Method of grading (not) successfully completed Modul level undergraduate								
	Courses	$V(1) + \ddot{U}(2)$								
	Method of assessment	project in the form of programming exercises (approx. 20 to 25 hours) Language of assessment: German and/or English Assessment offered: Once a year, winter semester								
	Referred to in LPO I	§ 22 II Nr. 3 f)								

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10-M-PRG-152-m01	Programming course for students of Mathematics and other subjects								
	ECTS 3 Duration		n	1 semester	Method of grading (not) successfully completed	Modul level	undergraduate		
	Course	es		P (2)	-	· · ·	•		
	Metho	d of ass	essment			gramming exercises (approx. 20 to 25 hours)			
				Language of assessment: German and/or English Assessment offered: Once a year, summer semester					
	Deferre	ed to in I			I Nr. 3 f)	e a year, summer semester			
10-M-GBM-152-				-		coning			
mo1		2	Duratio		ods of Mathematical Reasoning         1 semester       Method of grading       (not) successfully completed       Modul level       undergraduate				
	Course		Duratio		1 semester + Ü (1)		Modul level	undergraduate	
			occmont	• • •	ct (10 to 15 pages)			_	
	Method of assessment					: German and/or English			
	Additic	onal Info	rmation			n module duration: block taught prior to the beginning	ng of the lecture	e period.	
	Referred to in LPO I			§ 22 ll Nr. 1 h)					
				§ 22    Nr. 2 f)					
10-M-ASM-152-	Reasoning and Writing in Mathematics								
m01	ECTS 2 Duratio			n	1 semester	Method of grading (not) successfully completed	Modul level	undergraduate	
	Courses		$V(1) + \ddot{U}(1)$						
	Method of assessment		project (10 to 20 pages) Language of assessment: German and/or English						
Subject-specific Ke	y Skills	, Compu	lsory Ele						
10-M-SEM2-152-	12-152- Supplementary Seminar Mathematics								
m01	ECTS 4 Duratio		n	1 semester	Method of grading (not) successfully completed	Modul level	undergraduate		
	Course	es		S (2)	-	· · ·	•		
	Method of assessment			talk (60 to 120 minutes)					
				Language of assessment: German and/or English					
10-M-EFM-152-m01	Introduction to Stochas				1				
	ECTS 9 Duratio				undergraduate				
	Courses			V (4) + Ü (2)					
	Method of assessment			a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or					
				c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate)					
			Language of assessment: German and/or English creditable for bonus						

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10-M-TOP-152-m01	1 Introduction to Topology								
	ECTS 5 Duration			ı	1 semester	Method of grading (not) successfully completed Modul level undergraduate			
	Courses			V (2) + Ü (2)					
	Methoo	d of ass	essment	a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus					
10-M-GES-152-m01	Selecte	ed Topic	s in Histo	ry of N	lathematics				
	ECTS	5	Duration	า	1 semester	Method of grading (not) successfully completed Modul level undergraduate			
	Course	S	<u>.</u>	V (2) -	- + Ü (2)				
	Method of assessment			a) talk (45 to 90 minutes) or b) term paper (10 to 15 pages) or c) project work (15 to 25 hours) Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester					
	Referre	d to in L	PO I	§ 22 II Nr. 3 f)					
10-M-MSC-152-	Mathe	matical	Writing						
m01	ECTS	5	Duration		1 semester	Method of grading (not) successfully completed Modul level undergraduate			
	Courses			V (2) + Ü (2)					
	Method of assessment			b) term paper (10 to 15 pages) or c) project work (15 to 25 hours) Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester					
		d to in L	-	§ 22 II Nr. 3 f)					
10-M-SCH-152-m01				om a Higher Perspective					
		5	Duration		1 semester	Method of grading (not) successfully completed Modul level undergraduate			
	Courses Method of assessment			V (2) + Ü (2) a) talk (approx. 45 minutes) or b) term paper (10 to 15 pages) or c) project work (15 to 25 hours) Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester					
	Referred to in LPO I			§ 22 II Nr. 1 h) § 22 II Nr. 2 f) § 22 II Nr. 3 f)					

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10-M-PRO-152-m01	Proseminar Mathematics									
-	ECTS	4	Duratio		1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate	
	Courses			S (2)						
	Method of assessment			talk (60 to 120 minutes)						
				Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered						
10-M-KRY-232-m01	Mather	natical	Aspects o	of Mod	ern Cryptography					
	ECTS 5 Duratio				1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate	
	Course	s	<u>.</u>	V (3) -	- + Ü (1)			•		
				<ul> <li>b) oral examination of one candidate each (15 to 30 minutes) or</li> <li>c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate)</li> <li>Language of assessment: German and/or English</li> <li>Assessment offered: in the semester in which the course is offered and in the subsequent semester</li> <li>creditable for bonus</li> </ul>						
	Referred to in LPO I			§ 22 II Nr. 3 f)						
Thesis (11 ECTS cre	dits)									
10-M-BAM-152-	Bachel	or Thesi	is Mather	natics						
m01	ECTS	11	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses			No courses assigned to module						
	Method of assessment			Bachelor's thesis (approx. 275 to 330 hours)						
	other prerequisites			The supervisor may make the successful completion of certain modules that are relevant for the respective topic a prerequisi- te for the assignment of the topic.						
	Additional Information			Time to complete: 10 weeks.						