

## **Annex SFB**

## Studienfachbeschreibung (subject description, SFB) for the subject MINT Teacher Education PLUS, Elite Network Bavaria (ENB) with the degree "LA Master Gymnasium" (120 ECTS credits)

Responsible: Faculty of Biology

Responsible: Faculty of Chemistry and Pharmacy

Responsible: Faculty of Mathematics and Computer Science

Responsible: Faculty of Physics and Astronomy

Examination regulations version: 2020

Examination regulations version: 2020

Examination regulations version: 2020

Examination regulations version: 2020

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

= lecture

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

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

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

= list of modules

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

Conventions for the modules in this SFB:

Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not cre-

ditable for bonus.

Information on assessment procedures:

Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the method of assessment to be used in the current semester by two weeks after the start of the course at the latest and will communicate this in the

customary manner.

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

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

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

## ASP02015

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

## 18-Dec-2019 (2019-59)

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

Every module will be described using the following form:

Abbreviation	Module title	Module title										
	ECTS		Duration	(in semesters)	Method of grading		Module level					
	Courses		To be sp	To 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	sessm	ent									
	Only after su completion o		ıl if applic	if applicable								
	Other prereq	uisites	if applic	if applicable								
	Participants on of places		ocati- if applic	if applicable								
	Additional information			able								
	Referred to in	1 LPO I	if applic	if applicable (examination regulations for teaching-degree programmes)								

Module Area A: Foo	us Subject (60	ECTS cred	lits)								
Focus Subject Biolo	ogy (o or 6o ECT	S credits	)								
07-GY-BFM-152-	Research Met	hods in Bi	ology	logy							
mo1	ECTS 5	Duratio		1 semester	Method of grading	(not) successfully complet	ed Modul level	undergraduate			
	Courses		S (3)								
	Method of ass	essment	each senta ding t 10 to 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) or g) term paper (approx. 10 to 30 pages) or h) project (approx. 10 to 30 pages) or i) portfolio.  Students will be informed about the method and length of the assessment prior to the course. creditable for bonus							
	Referred to in	LPO I	§ 61 l	Nr. 7							
07-GY-FOP-152-	Research-orie	nted work	ing in	Biology							
mo1	ECTS 7 Duration		n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		Ü (4)								
			senta ding t 10 to Stude credit	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) or g) term paper (approx. 10 to 30 pages) or h) project (approx. 10 to 30 pages) or i) portfolio.  Students will be informed about the method and length of the assessment prior to the course. creditable for bonus							
	Referred to in			§ 61   Nr. 7							
07-LA-HU- BIO-1-152-m01	Basic Human I										
DIO-1-152-11101	ECTS 6	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses Method of ass	essment		n examination (apprable for bonus	rox. 60 to 90 minutes	)					
	Referred to in	LPO I	§ 61 l	Nr. 5							
o7-LA-HU-	Basic Human I	Biology II			1						
BIO-2-152-m01	ECTS 5	Duration	n	1 semester	Method of grading	(not) successfully complet	ed Modul level	undergraduate			
	Courses		Ü (3)								
	Method of ass	essment	Logs (	(approx. 30 hours) a able for bonus	nd 10 to 15 drawings						
	Modules succe completed	essfully	07-LA-HUBIO-1 or 07-GMR-HUBIO-1								
	Referred to in LPO I		§ 41   Nr. 5 § 61   Nr. 5								
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o7-GY-MI-	Advand	ced Mic	robiology	- GY			1				
BI-152-mo1	ECTS	5	Duratio	า	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Course	25		Ü (3)							
	Metho	d of ass	essment	credit	n examination (ap able for bonus	•					
	other p	rerequi	sites	Admi ses (a	Admission prerequisite to assessment: exercises. Regular attendance (minimum 80%) and successful completion of exercises (approx. 25 to 30 hours) are prerequisites for admission to assessment.						
	Referred to in LPO I		§ 61 l	§ 61   Nr. 3							
07-MS1-152-m01	Neurob	oiology,	Behaviou	ıral Ph	ysiology and Anim	al Ecology					
	ECTS	10	Duratio	1	1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses			V (3)	lle taught in: Englis	sh					
	Metho	d of ass	essment	c) ora d) ora	a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English						
07-MS1CB-152-	Endogenous Clocks										
mo1	ECTS	10	Duratio	า	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	<u>!</u> S		V (2) + S (1) Module taught in: English							
	Method of assessment			a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English							
07-MS1NMN-	Neuror	nodulat	ion and N	euron	al Development						
D-152-m01	ECTS	10	Duratio	1	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	Courses			+ S (1) lle taught in: Englis	sh					
	Method of assessment			c) ora d) ora	l examination of o Il examination in g	30 to 60 minutes, including multiple choice qu ne candidate each (30 to 60 minutes) or roups of up to 3 candidates (30 to 60 minutes) t: German and/or English	estions) or				

07-MS1N-	Neurob	Neurobiology F1											
F1-152-m01	ECTS	10	Duration	n	1 semester	Method of grading   numerical grade	Modul level	graduate					
	Course	·S			P (14) + S (1) Module taught in: German and/or English								
	Method	d of ass	essment	b) log c) ora d) ora e) pre	a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English								
07-MS1N-	Neurob	oiology	F2		•								
F2-152-m01	ECTS	15	Duratio	n	1 semester	Method of grading (not) successfully completed	Modul level	graduate					
	Course	·S			) + S (1) ule taught in: Germ	an and/or English							
				b) log c) ora d) ora e) pre Langu	a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English								
07-MS1TÖ-152-	Animal Ecology and Tropical Biology												
mo1	ECTS	10	Duration	1 semester Method of grading numerical grade		Modul level	graduate						
	Course	!S		V (2) + S (1) Module taught in: German and/or English									
	Method of assessment			a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English									
07-MS1TÖ2-152-	Animal	Ecolog	y and Tro	pical B	iology 2								
mo1	ECTS	10	Duration	n	1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses				V (2) + S (1) Module taught in: English								
	Method of assessment			c) ora d) ora	al examination of o al examination in g	3o to 6o minutes, including multiple choice question ne candidate each (3o to 6o minutes) or roups of up to 3 candidates (3o to 6o minutes) nt: German and/or English	s) or						

07-MS1TÖF1-152-	Animal	l Ecology	y F1										
mo1	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	es			+ S (1) le taught in: Germa	nn and/or English							
	Method	d of ass	essment	a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English									
07-MS1TÖF2-152-	Animal	l Ecology	y and Trop	oical B	iology F2								
mo1	ECTS	15	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Course	2S			+ S (1) le taught in: Germa	an and/or English							
				a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English									
07-MS1K-152-m01	Animal	Animal Communication  FCTS   100   Divertism   100   00   00   00   00   00   00											
	ECTS	10	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	<u>!</u> S		V (2) + S (1) Module taught in: German and/or English									
	Method	d of asse	essment	b) log c) ora d) ora e) pre	(15 to 30 pages) or l examination of on l examination in gr sentation (20 to 45	e candidate each (3c oups of up to 3 candi	dates (30 to 60 minutes) or	s) or					
07-MS1ES-152-	Experir	mental S	Sociobiolo										
mo1	ECTS	10	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course			V (2) + S (1) Module taught in: English									
	Method	d of asse	essment	a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English									

07-MS1N-	Neurog	enetics	of Behav	iour	-								
B-152-mo1	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S			+ S (1) Ile taught in: English	· 1							
	Method	l of ass	essment	a) wri c) ora d) ora	a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English								
07-MS1V-	Behavi	oural Pl	nysiology	and S	and Sociobiology F1								
F1-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S			+ S (1) lle taught in: Germa	n and/or English							
	Method	l of ass	essment	a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English									
07-MS1V-	Behavioural Physiology and Sociobiology F2												
F2-152-m01	ECTS 15 Duratio			n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Courses			P (29) + S (1) Module taught in: German and/or English									
	Method of assessment			a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English									
07-MS2-152-m01	Molecu	lar Biol	ogy										
	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			V (3) Module taught in: German and/or English									
	Method	l of ass	essment	Students will be informed about the method, length and scope of the assessment prior to the course. Usually, one of the following options will be chosen: a) written examination (30 to 60 minutes, including multiple choice questions) or b) oral examination of one candidate each (30 to 60 minutes) or c) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English									

07-MS2ZE1-152-	Cell and Developmental Biology Master 1												
mo1	ECTS	10	Duration	ı T	1 semester	Method of grading	g numerical grade	Modul level	graduate				
	Course	S	•		V (1) + S (2) Module taught in: German and/or English								
	Method	d of ass	essment	c) oral d) ora	a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English								
07-MS2ZE2-152-	Cell an	d Devel	opmental	Biolog	y Master 2								
mo1	ECTS	10	Duration	n [	1 semester	Method of grading	g numerical grade	Modul level	graduate				
	Course	S		V (1) + Modul	S (2) le taught in: Engli	sh							
	Method	d of ass	essment	c) oral d) ora	written examination (30 to 60 minutes, including multiple choice questions) or oral examination of one candidate each (30 to 60 minutes) or oral examination in groups of up to 3 candidates (30 to 60 minutes) nguage of assessment: German and/or English								
07-MS2ZE-	Cell and Developmental Biology F1												
F1-152-m01	ECTS 10 Duratio			n [	1 semester	Method of grading	g numerical grade	Modul level	graduate				
	Courses			P (14) + S (1) Module taught in: German and/or English									
	Method of assessment			a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English									
07-MS2ZE-	Cell an	d Devel	opmental	Biolog	y F2								
F2-152-m01	ECTS	15	Duration	n [	1 semester	Method of grading	g (not) successfully completed	Modul level	graduate				
	Courses			P (29) + S (1) Module taught in: German and/or English									
	Method of assessment			a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English									

07-MS2IN-	Infection	n Biolo	gy									
F-152-m01	ECTS	10	Duratio	า	1 semester	Method of grading   numerical grade	Modul level	graduate				
	Course	S			V (2) + S (1) Module taught in: German and/or English							
	Method	d of ass	essment	c) ora d) ora	a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English							
07-MS2PA-152-	Pathogenicity of Microorganisms											
mo1	ECTS	10	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (2) - Modu	+ S (1) le taught in: Englis	h						
	Method	d of ass	essment	c) ora d) ora	a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English							
07-MS2M-	Microbiology F1											
F1-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S			P (14) + S (1) Module taught in: German and/or English							
	Method of assessment			a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English								
07-MS2M-	Microb	iology I	2	,			'					
F2-152-m01	ECTS	15	Duratio	1	1 semester	Method of grading (not) successfully completed	Modul level	graduate				
	Courses			P (29) + S (1) Module taught in: German and/or English								
	Method	d of ass	essment	a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English								

07-MS2B-	Biophy	sics an	d Molecul	Biophysics and Molecular Biotechnology												
T-152-m01	ECTS	10	Duratio	1	1 semester	Method of grading   numerica	ıl grade	Modul level	graduate							
	Course	S		V (2) -												
					le taught in: English				_							
	Method	d of ass	essment	a) wri	a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes)											
					anguage of assessment: German and/or English											
07-MS2BT-	Biophysics and Molecular Biotechnology F1															
F1-152-m01	ECTS	10	Duratio	ı	1 semester	Method of grading numerica	ıl grade	Modul level	graduate							
	Course	S			P (14) + S (1)  Module taught in: German and/or English											
	Method	d of ass	essment			o to 60 minutes, including mult	tiple choice question	s) or								
					(15 to 30 pages) or											
				c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or												
				e) presentation (20 to 45 minutes)												
				Langu	lage of assessment	: German and/or English										
07-MS2BT-		Biophysics and Molecular Biotechnology F2														
F2-152-m01	ECTS	15	Duration		1 semester	Method of grading (not) succ	cessfully completed	Modul level	graduate							
	Courses			P (29) + S (1) Module taught in: German and/or English												
	Method of assessment			a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or												
				c) ora	l examination of on	e candidate each (30 to 60 min										
						oups of up to 3 candidates (30 t	to 60 minutes) or									
				e) presentation (20 to 45 minutes) Language of assessment: German and/or English												
07-MS2BI-152-m01	Bioinfo	rmatics	<u> </u>													
	ECTS	10	Duration	1	1 semester	Method of grading   numerica	ıl grade	Modul level	graduate							
	Course			V (2) -					1.5							
					le taught in: Germa	n and/or English										
	Method	d of assessment a) written examination (30 to 60 minutes, including multiple choice questions) or														
				c) oral examination of one candidate each (30 to 60 minutes) or												
					d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English											
<u> </u>	,			Language of assessment: definal and/of English												

07-MS2BIF1-152-	Bioinfo	rmatics	F1									
mo1	ECTS	10	Duration	n .	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S	•		P (14) + S (1) Module taught in: German and/or English							
	Method	d of asso	essment	b) log c) ora d) ora e) pre	a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English							
07-MS2BIF2-152-	Bioinfo	rmatics	F2				'					
mo1	ECTS	15	Duration	<u> </u>	1 semester	Method of grading (not) successfully comp	oleted Modul level	graduate				
	Course	S			P (29) + S (1) Module taught in: German and/or English							
	Method	d of asse	essment	a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English								
07-MS31-152-m01	Current	t Metho	ds in Biol	in Biology								
	ECTS	10	Duration	า	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (3) Module taught in: German and/or English								
	Method	a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English										
07-MS31POEK-152-	Plant E	cology					'					
mo1	ECTS	10	Duration	1	1 semester	Method of grading   numerical grade	Modul level	graduate				
	Course	S		V (2) + S (1) Module taught in: German and/or English								
	Method of assessment			a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English								

07-MS31PIP-152-	Plant II	mmunob	oiology a	nd Pha	rmaceutical Biology								
mo1	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S	•		V (2) + S (1) Module taught in: German and/or English								
	Method	d of asse	essment	c) ora d) ora	a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English								
07-MS3B-	Biophy	sics and	d Biochen	nistry									
B-152-m01	ECTS	10	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		V (2) - Modu	+ S (1) le taught in: English								
	Method	d of asse	essment	c) ora d) ora	a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English								
07-MS31MPP-	Molecular Plant Physiology F1												
F1-152-m01	ECTS 10 Duratio			n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		P (14) + S (1) Module taught in: German and/or English									
	Method of assessment			a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English									
07-MS31MPP-	Molecu	ılar Plan	t Physiol										
F2-152-m01	ECTS	15	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Courses				+ S (1) le taught in: Germar	and/or English							
	Method of assessment			a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English									

07-MS3BSBF1-152-	Biocher	mistry a	nd Struct	ural B	ural Biology F1								
mo1	ECTS	10	Duration	)	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	S			+ S (1) le taught in: Germ	an and/or English							
	Method	l of asse		b) log c) ora d) ora e) pre	a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English								
07-	Biocher	mistry a	and Struct	ural B	iology F2								
MS3BSBF2-152-	ECTS	15	Duration	)	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
m01	Courses	S			P (29) + S (1) Module taught in: German and/or English								
	Method	l of asse		a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English									
07-MS3B-	Biophysics of Plant Membrane Proteins F1												
PF1-152-m01	ECTS	10	Duration	)	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	S		P (14) + S (1) Module taught in: German and/or English									
	Method	l of asse		a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English									
07-MS3B-	Biophy	sics of I	Plant Men	nbrane	Proteins F2								
PF2-152-m01	ECTS	15	Duration	)	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Courses	S		P (29) + S (1) Module taught in: German and/or English									
	Method of assessment			a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English									

07-MS3S-	Plant S	ignallir	ng F1									
PF1-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S	·		+ S (1) le taught in: Germa	an and/or English	,					
	Mothod	d of acc	essment			30 to 60 minutes, including multiple choice questio	nc) or					
	Method	ı 01 ass	essillelli		(15 to 30 pages) o		113) 01					
				c) ora	) oral examination of one candidate each (30 to 60 minutes) or							
				d) ora	d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or especially presentation (20 to 45 minutes)							
				Langu	e) presentation (20 to 45 minutes) Language of assessment: German and/or English							
07-MS3S-	Plant S	ignallir	ng F2	,								
PF2-152-m01	ECTS 15 Duratio			n	1 semester	Method of grading (not) successfully completed	Modul level	graduate				
	Course	S			) + S (1) :le taught in: Germa	an and/or English						
	Method	d of ass	essment			30 to 60 minutes, including multiple choice questio	ns) or					
				b) log	(15 to 30 pages) o	r	-, -					
					c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or							
					n examination in gr esentation (20 to 45							
						t: German and/or English						
o7-MS3PBM-	Pharma	Pharmaceutical Biology and Metabolomics F1										
F1-152-m01	ECTS 10 Duratio				1 semester	Method of grading   numerical grade	Modul level	graduate				
	Courses				P (14) + S (1) Module taught in: German and/or English							
	Method	d of ass	essment	a) written examination (30 to 60 minutes, including multiple choice questions) or								
					b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or							
						roups of up to 3 candidates (30 to 60 minutes) or						
				e) pre	sentation (20 to 45	5 minutes)						
						t: German and/or English						
07-MS3PBM-					letabolomics F2			T .				
F2-152-m01		15	Duratio		1 semester	Method of grading (not) successfully completed	Modul level	graduate				
	Course	S			) + S (1) lle taught in: Germa	an and/or English						
	Method	d of ass	essment		a) written examination (30 to 60 minutes, including multiple choice questions) or							
			b) log (15 to 30 pages) or									
				c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or								
				e) presentation (20 to 45 minutes)								
				Langu	Language of assessment: German and/or English							

o7-MS3PPE-	Physiologica	l Plant Eco	logy F1									
F1-152-m01	ECTS 10	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses		P (14) - Modul		an and/or English							
	Method of as	sessment	b) log (c) oral d) oral e) pres	a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English								
o7-MS3PPE-	Physiologica	l Plant Eco	logy F2									
F2-152-m01	ECTS 15	Duration	1	1 semester	Method of grading (not) successfully completed	Modul level	graduate					
	Courses			P (29) + S (1) Module taught in: German and/or English								
			a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English									
o7-MS3MCPE-	Molecular and Chemical Plant Ecology F1											
F1-152-m01	ECTS 10	Duration		1 semester	Method of grading   numerical grade	Modul level	graduate					
	Courses		P (14) + S (1) Module taught in: German and/or English									
	Method of as	sessment	b) log (c) oral d) oral e) pres	(15 to 30 pages) of examination of o examination in gentation (20 to 4	ne candidate each (30 to 60 minutes) or groups of up to 3 candidates (30 to 60 minutes) or	ns) or						
o7-MS3MCPE-	Molecular an											
F2-152-m01	ECTS 15	Duration		1 semester	Method of grading (not) successfully completed	Modul level	graduate					
	Courses			e taught in: Germ	an and/or English							
	Method of as	sessment	b) log (c) oral d) oral e) pres	en examination (30 to 60 minutes, including multiple choice questions) or 15 to 30 pages) or examination of one candidate each (30 to 60 minutes) or examination in groups of up to 3 candidates (30 to 60 minutes) or entation (20 to 45 minutes) ge of assessment: German and/or English								

07-MS3S-152-m01	System	s Biolog	 gy								
	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V (2) + Modu	- S (1) le taught in: German	and/or English					
	Method	d of asse	essment	c) ora d) ora	a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English						
07-MS3SYF1-152-	System	ıs Biolog	gy F1								
mo1	ECTS	10	Duration	l	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S			+ S (1) le taught in: German	and/or English					
	Method	d of asse	essment	b) log c) ora d) ora e) pre	a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English						
07-MS3SYF2-152-	Systems Biology F2										
mo1	ECTS 15 Duratio		Duration	ı	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses				+ S (1) le taught in: German	and/or English					
	Method	d of asse	essment	b) log c) ora d) ora e) pre	a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English						
o7-MS3COB-		tational	Biology I	F1							
F1-152-m01	ECTS	10	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		P (14) + S (1) Module taught in: German and/or English							
	Method of assessment			a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English							

o7-MS3COB-	Compu	tational	Biology	F2								
F2-152-m01	ECTS	15	Duration	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses	S	_		+ S (1)							
					Module taught in: German and/or English							
	Method	d of asso	essment		a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or							
				e) pre	sentation (20 to 45	minutes)						
			,	Langu	lage of assessment:	: German and/or Engl	ish					
07-MSL1-152-m01	Laborat	tory Cou	urse 1									
	ECTS	5	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses	S		P (5)		.,						
					Module taught in: German and/or English							
	Method of assessment				a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or							
				c) oral examination of one candidate each (30 to 60 minutes) or								
				d) ora	d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes)							
	other prerequisites			Language of assessment: German and/or English								
				Please consult with course advisory service in advance.								
07-MSL2-152-m01	Laborat		1		г	T		T				
		10	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses	S		P (15)	la tavalatia. Camaa	/						
	00 a t la a a				le taught in: Germai		udina navikiala abaisa aveakian	-) -"				
	Method	i or asse	essment	a) wri	tten examination (3) (15 to 30 pages) or	o to 60 minutes, incli	uding multiple choice question	s) or				
				c) oral examination of one candidate each (30 to 60 minutes) or								
				d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or								
				e) presentation (20 to 45 minutes)								
	other prerequisites			Language of assessment: German and/or English Please consult with course advisory service in advance.								
	otner p	rerequis	sites	Pleas	e consult with cours	se advisory service in	advance.					

07-MSL3-152-m01	Laborat	tory Cou	ırse 3					,			
	ECTS	15	Duratio	า	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses	S		P (30) Modu	P (30) Module taught in: German and/or English						
	Method of assessment			b) log c) ora d) ora e) pre	a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) c.anguage of assessment: German and/or English						
	other p	rerequis	sites	Pleas	e consult with cours	e advisory service in	advance.				
07-MSA1-152-m01	Externa										
	ECTS	5	Duratio		1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses	S		P (10) Modu	Module taught in: German and/or English						
	Method	l of asse	essment	b) log c) ora d) ora e) pre	a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English						
	other p	rerequis	sites	Please consult with course advisory service in advance.							
07-MSA2-152-m01	Externa		ship 2								
	ECTS	10	Duratio		1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses	S		P (15) Modu	le taught in: Germar	n and/or English					
				wing of pages (30 to Langu	Students will be informed about the method, length and scope of the assessment prior to the course. Usually, one of the following options will be chosen: a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes)  Language of assessment: German and/or English						
	other p	rerequis	sites	Pleas	e consult with cours	e advisory service in	advance.				

07-MSA3-152-m01	Externa	l Intern	ship 3			,	,				
	ECTS	15	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses	S		P (30) Modu	le taught in: Germar	n and/or English					
	Method	l of asso	essment	b) log c) ora d) ora e) pre	a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English						
	other p	rerequi	sites	Pleas	e consult with cours	e advisory service in	advance.				
07-ML-152-m01	Linux a	nd Perl						'			
	ECTS	5	Duration	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses	S		S (3) Modu	dule taught in: German and/or English						
	Method	l of asso	essment	a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English							
07-MLS1B-152-	Method	ls in Lif	e Science	s B							
mo1	ECTS	7	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses	S		V (3) Modu	V (3) Module taught in: English						
	Method	l of asso	essment	c) ora d oral	a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: English						
07-MLS1-152-m01	Method	ls in Lif	e Science	<b>!</b> S							
	ECTS	10	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	S		V (3) Module taught in: English							
	Method of assessment			Students will be informed about the method, length and scope of the assessment prior to the course. Usually, one of the following options will be chosen: a) written examination (30 to 60 minutes, including multiple choice questions) or b) oral examination of one candidate each (30 to 60 minutes) or c) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: English							

07-MLS2B-152-	Topics	Topics and Concepts in Life Sciences B											
mo1	ECTS	7	Duration	1	1 semester	Method of grading (not) successfully completed	Modul level	graduate					
	Course	S		V (3)		·	-						
					Module taught in: English								
	Method	d of ass	essment		) written examination (30 to 60 minutes, including multiple choice questions) or								
					c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: English								
07-MLS2-152-m01													
	ECTS	10	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	S		V (3) Modu	le taught in: Englisl	h							
	Method of assessment			b) ora	a) written examination (30 to 60 minutes, including multiple choice questions) or b) oral examination of one candidate each (30 to 60 minutes) or c) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: English								
07-MS31B-152-	Current	t Metho	ds in Biol	ogy B	В								
mo1	ECTS	7	Duration		1 semester	Method of grading (not) successfully completed	Modul level	graduate					
	Course	S		V (3) Modu	le taught in: Englisl	h							
	Method of assessment			a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English									
07-MS31POEK-	Plant E	cology	В										
B-152-mo1	ECTS	5	Duration	1	1 semester	Method of grading (not) successfully completed	Modul level	graduate					
	Courses			V (2) Module taught in: English									
	Method	d of ass	essment	a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English									
07-MS31PIP-	Plant Ir	mmuno	hiology ar		rmaceutical Biolog	_							
B-152-m01	ECTS	5	Duration		1 semester	Method of grading (not) successfully completed	Modul level	graduate					
	Course			V (2)  Module taught in: German and/or English									
	Method of assessment			a) wri c) ora d) ora	a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English								

o7-MS3BB-	Biophy	sics an	d Biochen	nistry	В							
B-152-m01	ECTS	5	Duration	1	1 semester	Method of grading (not) successfully completed	Modul level	graduate				
	Courses	S		V (2) Modu	lle taught in: English							
				c) ora d) ora	a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English							
07-MS2BT-	Biophysics and Molecular Biotechnology B											
B-152-m01	ECTS	5	Duration	1	1 semester	Method of grading   numerical grade	Modul level	graduate				
	Courses	S		V (2) Modu	lle taught in: English							
	Method of assessment			c) ora d) ora	a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English							
07-MS1B-152-m01	Neurob	iology,	Behaviou	ral Ph	Physiology and Animal Ecology B							
	ECTS	7	Duration		1 semester	Method of grading (not) successfully completed	Modul level	graduate				
	Courses	S		V (3) Modu	Module taught in: English							
	Method of assessment			a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English								
07-MNBB-152-m01	Neurog	enetics	of Behav	our B								
	ECTS	5	Duration	า	1 semester	Method of grading (not) successfully completed	Modul level	graduate				
	Courses	S		V (3)	lle taught in: English							
				c) ora d) ora Langu	a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English							
o7-MEN-	Neuron	nodulat	ion and N	eurona	al Development B							
MNDB-152-m01	ECTS	5	Duration		1 semester	Method of grading (not) successfully completed	Modul level	graduate				
	Courses	S		V (3) Module taught in: English								
	Method of assessment			a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English								

07-MECB-152-m01	Endoge	enous Cl	ocks B								
	ECTS	5	Duration	1	1 semester	Method of grading (not) successfully comp	leted	Modul level	graduate		
	Course	S		V (2)							
	Method	d of asse		c) ora d) ora	a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English						
07-MTÖB-152-m01	Animal	Ecology	y and Trop	oical B	iology B						
	ECTS	5	Duration	ı	1 semester	Method of grading (not) successfully comp	leted	Modul level	graduate		
	Course	S		V (2) Modu	lle taught in: Germai	n and/or English					
	Method of assessment			Students will be informed about the method, length and scope of the assessment prior to the course. Usually, one of the following options will be chosen: a) written examination (30 to 60 minutes, including multiple choice questions) or b) oral examination of one candidate each (30 to 60 minutes) or c) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English							
07-MTÖ2B-152-	Animal Ecology and Tropical Biology 2 B										
mo1	ECTS 5 Duratio		า	1 semester	Method of grading (not) successfully comp	leted	Modul level	graduate			
	Course	Courses			lle taught in: English						
	Method of assessment			Students will be informed about the method, length and scope of the assessment prior to the course. Usually, one of the following options will be chosen: a) written examination (30 to 60 minutes, including multiple choice questions) or b) oral examination of one candidate each (30 to 60 minutes) or c) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English							
07-MKB-152-m01	Animal	Commu	ınication	В							
	ECTS	7	Duration	ı	1 semester	Method of grading (not) successfully comp	leted	Modul level	graduate		
	Courses			V (2) + S (1) Module taught in: German and/or English							
	Method of assessment			Students will be informed about the method, length and scope of the assessment prior to the course. Usually, one of the following options will be chosen: a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes)  Language of assessment: German and/or English							

07-MESB-152-m01	Experin	nental S	Sociobiolo	ogy B							
	ECTS	7	Duration	1	1 semester	Method of grading (not) successfully completed   Modul level   graduate					
	Courses	S		V (2) -							
					le taught in: Englis						
				wing of pages (30 to	Students will be informed about the method, length and scope of the assessment prior to the course. Usually, one of the following options will be chosen: a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes)  Language of assessment: German and/or English						
07-MS2B-152-m01	Molecu	lar Biol	ogy B								
	ECTS 7 Duratio			1	1 semester	Method of grading (not) successfully completed   Modul level   graduate					
	Courses			V (3) Modu	(3) Odule taught in: German and/or English						
	Method of assessment			Students will be informed about the method, length and scope of the assessment prior to the course. Usually, one of the following options will be chosen: a) written examination (30 to 60 minutes, including multiple choice questions) or b) oral examination of one candidate each (30 to 60 minutes) or c) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English							
07-MS2INF-B-152-	Infectio	n Biolo	gy B								
mo1	ECTS	5	Duration	1	1 semester	Method of grading (not) successfully completed   Modul level   graduate					
	Courses	S		V (2) Module taught in: German and/or English							
	Method	of ass	essment	Students will be informed about the method, length and scope of the assessment prior to the course. Usually, one of the fol wing options will be chosen: a) written examination (30 to 60 minutes, including multiple choice questions) or b) oral examination of one candidate each (30 to 60 minutes) or c) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English							
07-MS2PA-B-152-	Pathog	enicity	of Microo	rganis	ms B						
mo1	ECTS	5	Duration	1	1 semester	Method of grading (not) successfully completed   Modul level   graduate					
	Courses			V (2) Modu	le taught in: Englis	sh					
	Method of assessment			Students will be informed about the method, length and scope of the assessment prior to the course. Usually, one of the following options will be chosen: a) written examination (30 to 60 minutes, including multiple choice questions) or b) oral examination of one candidate each (30 to 60 minutes) or c) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English							

07-MBI-B-152-m01	Bioinfo	rmatics	В								
	ECTS	5	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Course	S	•	V (2) Modu	Module taught in: German and/or English						
				wing on the mation	Students will be informed about the method, length and scope of the assessment prior to the course. Usually, one of the following options will be chosen: a) written examination (30 to 60 minutes, including multiple choice questions) or b) oral examination of one candidate each (30 to 60 minutes) or c) oral examination in groups of up to 3 candidates (30 to 60 minutes)  Language of assessment: German and/or English						
07-MS-B-152-m01	System	ıs Biolo	gy B								
	ECTS	5	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Course	S		V (2) Modu	le taught in: Germa	n and/or English					
	Method of assessment			Students will be informed about the method, length and scope of the assessment prior to the course. Usually, one of the following options will be chosen: a) written examination (30 to 60 minutes, including multiple choice questions) or b) oral examination of one candidate each (30 to 60 minutes) or c) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English							
o7-MKE-	Nucleu	s Works	hop		'	'					
WO-152-m01	ECTS	7	Duration	<u> </u>	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses			Ü (5) + V (1) Module taught in: German and/or English							
	Method of assessment			Students will be informed about the method, length and scope of the assessment prior to the course. Usually, one of the fo wing options will be chosen: a) written examination (30 to 60 minutes, including multiple choice questions) or b) oral examination of one candidate each (30 to 60 minutes) or c) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English							
07-MTROP-152-	Tropica	al Ecolog	3y								
mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		Ü (3) Module taught in: German and/or English							
	Method of assessment			Students will be informed about the method, length and scope of the assessment prior to the course. Usually, one of the following options will be chosen: a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English							

07-MPWD-152-m01	Preser	tation o	of Scientif	c Data	1								
	ECTS	5	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Course	!S		S (2) Modu	lle taught in: Germ	nan and/or English							
	Metho	d of ass	essment	wing pages (30 to	tudents will be informed about the method, length and scope of the assessment prior to the course. Usually, one of the follo- ing options will be chosen: a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 ages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates o to 60 minutes) or e) presentation (20 to 45 minutes) anguage of assessment: German and/or English								
07-MGLN-152-m01	Quality	y Assura	ance, Goo	d Pract	tice, Biosafety and	d Biosecurity							
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	es		V (1) - Modu		nan and/or English							
	Metho	d of ass	essment	option	udents will be informed about the method, length and scope of the assessment prior to the course. Usually, the following tion will be chosen: a) written examination (30 to 60 minutes, including multiple choice questions) nguage of assessment: German and/or English								
07-MV-	Specia	l Subje	ct Studies	Biolog	Biology and Natural Sciences 4								
MINT4-152-m01	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	?S		S (2) Module taught in: German and/or English Course type: might also be offered in V, Ü, P, R or E format									
	Metho	d of ass	essment	Students will be informed about the method, length and scope of the assessment prior to the course. Usually, one of the following options will be chosen: a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes)  Language of assessment: German and/or English									
	otherp	rerequi	sites	Pleas	e consult with cou	urse advisory service in	advance.						
07-MV-	Specia	l Subje	ct Studies	Biolog	gy and Natural Sci	iences 4B							
MINT4B-152-mo1	ECTS	5	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Courses					nan and/or English o be offered in V, Ü, P, F	R or E format						
	Method of assessment			Students will be informed about the method, length and scope of the assessment prior to the course. Usually, one of the following options will be chosen: a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English									
	other p	rerequi	sites	Pleas	e consult with cou	urse advisory service in	advance.						

07-MV-	Special Subject Studies Biology and Natural Sciences 5												
MINT5-152-m01	ECTS	6	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Course	?S		S (3) Module taught in: German and/or English Course type: might also be offered in V, Ü, P, R or E format									
	Metho	d of asso		Successful completion as certified by the lecturer Language of assessment: German and/or English									
	other p	rerequi	sites	Please	Please consult with course advisory service in advance.								
07-MV4-152-m01	Special Subject Studies outside Natural Sciences 4												
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	!S			5 (2) Module taught in: German and/or English Course type: might also be offered in V, Ü, P, R or E format								
	Metho	d of asso		wing of pages (30 to	Students will be informed about the method, length and scope of the assessment prior to the course. Usually, one of the following options will be chosen: a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes)  Language of assessment: German and/or English								
	other p	rerequi	sites	Please	consult with cour	se advisory service i	n advance.						
07-MV4B-152-m01	Specia	l Subjec	t Studies	outsid	e Natural Sciences	4B							
	ECTS	5	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Course	!S		S (2) Module taught in: German and/or English Course type: might also be offered in V, Ü, P, R or E format									
	Method	d of asso		Students will be informed about the method, length and scope of the assessment prior to the course. Usually, one of the following options will be chosen: a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes)  Language of assessment: German and/or English									
	other p	rerequi	sites	Please consult with course advisory service in advance.									
07-DR4-152-m01	Teachi	ng 4											
	ECTS	5	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate				
	Course	!S		S (3) Module taught in: German and/or English Course type: might also be offered in V, Ü, P, R or E format									
	Method of assessment			Successful completion as certified by the lecturer Language of assessment: German and/or English									
	other prerequisites			Please	consult with cour	se advisory service i	n advance.						

Focus Subject Chem	nistry (o	or 60	ECTS cred	its)								
08-SCM3-152-m01	Bioorga	anic Ch	emistry									
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	<u> </u>	•	S (3)	(3)							
	Method	l of ass	essment	exam	a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English							
08-FU-NT-152-m01	Chemically and bio-inspired Nanotechnology for Material Synthesis											
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		V (4)	•	•						
	Method	l of ass	essment	exam (appr	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)  anguage of assessment: German and/or English							
08-AC-ELO-152-	Elemen	tal Org	anic Cher	nistry	·							
mo1	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			V (2)	+ Ü (1)	•	•		•			
	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								
	Referred to in LPO I			§ 22    Nr. 1 h) § 22    Nr. 2 f) § 22    Nr. 3 f)								
08-AC-FK-152-m01	Solid S	tate Ch	emistry									
	ECTS	3	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	<u> </u>	,	V (2)								
<u>_</u>	Method	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								
	Referred to in LPO I			§ 22    Nr. 1 h) § 22    Nr. 2 f) § 62   Nr. 1								

08-ACM3-161-m01	Solid state che	emistry a	nd inor	ganic materials							
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		S (3)				-				
	Method 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							
					up to 3 candidates (a	approx. 15 minutes per candida	ite) or d) log (ap	prox. 20 pages) or e) presentation			
				approx. 30 minutes) .anguage of assessment: German and/or English							
o8-For-	Practical Poso	arch Cour		Grammar School Tea		1511					
sch-LAGY-152-mo1	ECTS 8	Duration		1 semester		(not) successfully completed	Modul level	undergraduate			
	Courses	Duration	P (16)		Method of glading	(not) successibility completed	Modulitevel	undergraduate			
	Method of ass	occmont	<u> </u>	approx. 20 pages)							
	Method of ass	essillelli			German and/or Engl	ish					
	other prerequi	sites					t (thesis) pursua	ant to Section 29 LPO I (examina-			
	·		tion r	egulations for teachi	ng-degree programm	nes) in the vertieft studiertes Fa	ach (subject stu	died with a focus on the scientific			
					istry) are highly reco	mmended to complete module	08-Forsch-LAG	Y directly before completing mo-			
	Additional Info	rmation		ule o8-Ch-HA-GY.							
	Referred to in I			Additional information on module duration: block placement / block taught practical course with a duration of 30 days.  § 62 I Nr. 4							
an OCM AVD. 161	Advanced Research Project Organic Chemistry										
08-0CM-AKP1-161-		Duration		ř ·	Mathad of aradina	(not) successfully completed	Modul level	are due to			
	ECTS 10 Courses	Duratio	P (20)	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses			le taught in: German	or English						
	Method of ass	essment			es) and talk (approx.	15 minutes)					
			Langu	Language of assessment: German and/or English							
08-PCM6-161-m01	Physical Chemistry (Advanced Lab)										
	ECTS 5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses		P (4)								
				Module taught in: German or English							
	Method of ass	essment		presentation (approx. 20 minutes)							
	A 1 1:0: 11 C			Language of assessment: German and/or English  Additional information on module duration: block taught lab course with approx. 20 working days.							
- O. A.C.M (	Additional Info				module duration: bi	ock taught lab course with app	rox. 20 Working	g days.			
08-ACM1-161-m01	Advanced Inor	-	<u>`</u>		NA - 411 - £1:		AA = -	Laura divista			
	ECTS 10	Duratio		2 semester	Method of grading	numericai grade	Modul level	graduate			
	Courses			+ S (3)			1.1				
	Method 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-ACPM-161-m01	Inorgar	nic Che	mistry pra	ctical	course for advanced					
		10	Duratio		1 semester	Method of grading (not) successfully completed	Modul level	graduate		
	Courses	S		P (24) Modu	le taught in: Germar	n or English				
	Method	l of ass	essment			(approx. 20 pages) and talk (approx. 15 minutes) German and/or English				
	Additio	nal Info	rmation	Additional information on module duration: block taught lab course with approx. 40 working days.						
08-PH-KAC-152-	Clinical	-analyt	ical Chen	nistry						
mo1	ECTS	5	Duratio		1 semester	Method of grading   numerical grade	Modul level	undergraduate		
	Courses			V (3)						
	Method	l of ass	essment		n examination (appr lage of assessment:	ox. 120 minutes) German and/or English				
o8-PCM1a-161-	Laser S	pectros	сору							
mo1	ECTS	5	Duratio		1 semester	Method of grading   numerical grade	Modul level	graduate		
	Courses	S		S (2) - Modu	+ Ü (1) le taught in: Germar	n or English				
	Method	l of ass	essment			oprox. 90 minutes) or b) oral examination of one cal German and/or English	ndidate each (a	pprox. 20 minutes)		
08-PCM1b-161-	Advanced Physical Chemistry (Lab)									
mo1	ECTS	5	Duratio	1						
	Courses			P (4) Module taught in: German or English						
	Method of assessment			Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical performance (2 to 4 random examinations)  Language of assessment: German and/or English						
	Additio	nal Info	rmation	Addit	ional information on	module duration: block taught lab course with app	rox. 20 working	days.		
o8-FU-Ma-	Materia	al Scien	ce 1 (Basi	c intro	duction)		'			
Wi1-152-m01	ECTS	5	Duratio	1	1 semester	Method of grading   numerical grade	Modul level	undergraduate		
	Courses	·		V (3) -						
	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						

o8-FU-Ma-	Materia	al Scien	ce 2 (The	Mate	rial Groups)								
Wi2-152-mo1	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S		V (3)	+ Ü (1)								
	Method	d of ass	essment	exam (app	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-FMM-MP-161-	Lab Co	Lab Course Material Science											
mo1	ECTS	5	Duratio	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Course	S		P (8)				•	•				
	Method	d of ass	essment	and a	ortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) nd assessment of practical performance (2 to 4 random examinations) anguage of assessment: German and/or English								
08-0CM-SYNT-161-	Modern	1 Synth	etic Meth	ods									
mo1	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S			+ Ü (1) ıle taught in: Gern	nan or English							
	Method	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									
o8-BC-	Molecular Biology for Advanced Students												
MOLMC-161-mo1	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	<u> </u>	·	V (2) + Ü (1)									
	Method	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									
o8-FU-Mo-	Molecu	lar Mat	erials (Le	cture)		,		,					
MaV-152-mo1	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S	•	V (3)	+ S (1)								
	Method	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 examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) pres (approx. 30 minutes)] as well as talk (approx. 30 minutes), weighted 3:1 Language of assessment: German and/or English									

08-PC-MBS-152-	Molecu	Molecular structure and spectroscopy												
mo1	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Course	S		V (2)	+ Ü (2)			•						
	Method	l of asso	essment	exam (appr Langu	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) presentatior (approx. 30 minutes) Language of assessment: German and/or English creditable for bonus									
	Referre	d to in L	.PO I	§ 62 l	Nr. 1									
o8-PCM3-161-mo1	Nanosc	ale Mat	erials											
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	S			+ Ü (1) ıle taught in: Germa	an or English								
	Method	l of asso	essment	prox. Langı	n) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes) canguage of assessment: German and/or English creditable for bonus									
08-0C3-152-m01	Organic Chemistry 3													
	ECTS	6	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Course	5	•	V (2)	+ 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 examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) prese (approx. 30 minutes)  Language of assessment: German and/or English										
	Referred to in LPO I			§ 22    Nr. 1 h) § 22    Nr. 2 f) § 22    Nr. 3 f)										
08-0C4-152-m01	Organi	c Chemi	stry 4											
	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Course	S		V (2)	+ Ü (2)									
	Method	l of asso	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										
	Referre	d to in L	.PO I	§ 22    Nr. 1 h) § 22    Nr. 2 f) § 62   Nr. 2										

08-OCM-FM-161-	Organio	c Funct	ional Mate	erials									
mo1	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	5	·	S (3)									
	Method	l of ass	essment	exam (appr	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) of examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presenta (approx. 30 minutes) Language of assessment: German and/or English								
08-PCM5-161-m01	Physica	Physical Chemistry of Supramolecular Assemblies											
	ECTS	5	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	5			+ Ü (1) ule taught in: Germ	an or English							
	Method of assessment			prox.	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes)  Language of assessment: German and/or English								
08-PH-KACP-152-	Practica	al cour	se of clinic	cal-an	alytical Chemistry								
mo1	ECTS	5	Duratio	1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate				
	Courses	S		P (5)	•	•		-					
	Method of assessment			Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical performance (2 to 4 random examinations)  Language of assessment: German and/or English									
08-FMM-PA-161-	Project Work												
mo1	ECTS	5	Duratio	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Courses	S		P (10)									
	Method	l of ass	essment	Log (approx. 15 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English									
08-TC-152-m01	Quantu	m Che	mistry										
	ECTS	3	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses	S		V (2)	+ Ü (1)								
	Method	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									
	Referred to in LPO I			§ 22    Nr. 1 h) § 22    Nr. 2 f) § 22    Nr. 3 f)									

08-PCM2-161-m01	Statist	ical Me	chanics a	nd Rea	ction Dynamics		,					
	ECTS	5	Duratio	า	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S			+ Ü (1) ıle taught in: Germa	an or English						
	Metho	d of ass	sessment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes)  Language of assessment: German and/or English								
08-PC-SBL1-152-	Symmetry, chemical bonding and light - Part 1											
mo1	ECTS	6	Duratio	<u> </u>	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	·S		V (3)	+ Ü (2)		,					
	Metho	d of ass	sessment	exam (appr	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							
	Referre			§ 22   § 22	§ 22    Nr. 1 h) § 22    Nr. 2 f) § 22    Nr. 3 f)							
o8-PCM4-161-mo1	Ultrafast spectroscopy and quantum-control											
	ECTS 5 Duratio				1 semester	Method of grading   numerical grade	Modul level	graduate				
	Courses			S (2) + Ü (1) Module taught in: German or English								
	Method of assessment			a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes)  Language of assessment: German and/or English								
	other p	rerequ	isites	Prior completion of modules o8-PCM1a and o8-PCM1b recommended.								
o8-BC-VPMM-161-	Practic	al cour	se "Molec	ular M	ular Machines" for advanced students							
mo1	ECTS	10	Duratio	า	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	:S		P (10)			,					
	Method of assessment			Log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English								
	Modules successfully completed			o8-BC-MOLP								
	Additional Information			Additional information on module duration: block taught lab course with approx. 40 working days.								

08-BC-VPPD-161-	Practical	cours	e "Protei	n Deg	radation in Eukaryo	tes" for advanced stud	ents	"			
mo1	ECTS 1	10	Duration	1	1 semester	Method of grading   r	numerical grade	Modul level	graduate		
	Courses		,	P (10)				•			
	Method	of asse	essment		Log (approx. 20 pages) and talk (approx. 15 minutes)						
				Language of assessment: German and/or English							
	Modules		ssfully	o8-B0	p8-BC-MOLP						
	complete				Additional information on module duration: block taught lab course with approx. 40 working days.						
	Addition						ck taught lab course with	i approx. 40 working	days.		
08-BC-VPRB-161-			4		mistry" for advance						
mo1	ECTS 1	10	Duration		1 semester	Method of grading r	numerical grade	Modul level	graduate		
	Courses			P (10)							
	Method o	of asse	essment			and talk (approx. 15 min t: German and/or Englis					
	Modules complete		ssfully	o8-B0	C-MOLP						
	Addition	al Info	rmation	Addit	dditional information on module duration: block taught lab course with approx. 40 working days.						
08-BC-VPSB-161-	Practical	tical course "Structural Biology" for advanced students									
mo1	ECTS 1	10	Duration	า	1 semester	Method of grading r	numerical grade	Modul level	graduate		
	Courses		•	P (10)	)	<u>.</u>					
	Method	of asse	essment		Log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English						
	Modules successfully completed			o8-BC-MOLP							
	Additional Information			Additional information on module duration: block taught lab course with approx. 40 working days.							
08-TCM1-161-m01	Selected	Topic	s in Theo	retical	Chemistry			,			
	ECTS 5	5	Duration	า	1 semester	Method of grading r	numerical grade	Modul level	graduate		
	Courses			S (2)	+ Ü (2)	<u>.</u>					
	Method o	of asse	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-ACM2-161-m01	Bioinorg	anic C	hemistry								
	ECTS 5 Duration			1	1 semester	Method of grading   r	numerical grade	Modul level	graduate		
	Courses			S (3) Modu							
	Method of assessment			a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate)  Language of assessment: German and/or English							

08-SCM4-161-m01	Supram	olecul	ar Chemis	try (Ad	dvanced Lab)							
	ECTS	5	Duration	1	1 semester	Method of grading (not) successfully completed	Modul level	graduate				
	Courses	5		P (6)	•	·						
					le taught in: Germa		_					
	Method	l of ass	essment		ntation (approx. 20	o minutes) t: German and/or English						
	Module	s succe	essfully		8-SCM <sub>2</sub>							
	comple											
					additional information on module duration: block taught lab course with approx. 20 working days.							
08-SCM1-152-m01			ar Chemis		asics)							
	ECTS	5	Duration		1 semester	Method of grading   numerical grade	Modul level	graduate				
	Courses			S (3)	-							
	Method	l of ass	essment			approx. 90 minutes) or b) oral examination of one ca t: German and/or English	ndidate each (a 	pprox. 20 minutes)				
08-TCM2-161-m01		and Ap			antum Chemistry							
	ECTS	5	Duration		1 semester	Method of grading   numerical grade	Modul level	graduate				
	Courses		_		2) + Ü (2)							
	Method	l of ass	essment	exam (appr	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-MCM1-161-m01	Practica	al cours	se medicir	ial che	emistry							
	ECTS	10	Duration	1	Modul level	graduate						
	Courses	5		P (10) Module taught in: German or English								
	Method of assessment			Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical assignments (2 to 4 random examinations) as well as report (30 to 50 pages) Language of assessment: German and/or English								
08-0CM-NAT-172-		Aspec	ts of Natu	ral Pro	oduct Chemistry an	d Biological Chemistry						
mo1	ECTS	5	Duration		1 semester	Method of grading   numerical grade	Modul level	graduate				
	Courses	5		S /Mod	ule taught in: Germ	nan or English						
	Method of assessment			a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English								
	Participants and allocation of places			Master's degree programme Chemie (Chemistry): no limitation. Master's degree programme Biochemie (Biochemistry): 20 places. Places will be allocated according to the number of subject semesters; among applicants with the same number of subject semesters, places will be allocated by lot A waiting list will be maintained and places re-allocated as they become available.								

08-BC-MOLP-172-	Molecu	lar Biol	ogy labor	ratory course								
mo1	ECTS	10	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			P (5)								
	Method	l of asse	essment	a) written examination (approx. 45 to 90 minutes) or b) log (10 to 20 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 to 20 minutes per candidate) or e) presentation (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)  Assessment offered: Once a year, winter semester								
				•	Language of assessment: German and/or English  Biochemie (Biochemistry), Bachelor's (180 ECTS credits): Should the							
	Particip cation o	of place	S	numb Quota avera applid maint Chem gree p ber of waitir ter pr me M with t locate	er of applications of a 1 (two thirds of places wistern; among applicationed and places rie (Chemistry), Masters and the comment of subject semesters ag list will be maint occedure 1 is finished in the same number of ed by lot as they be	exceed the number of aces): current average all be allocated by lot ants with the same ne-allocated as they be ster's and MINT-Lehra (Chemistry) (120 ECT). Among applicants valued and places read completely, theses as follows: Places will subject semesters, p	available places, place grade of successfully Quota 2 (one third of umber of subject seme ecome available. mt PLUS Master's: 6 p'S credits) will be consyith the same number allocated by lot as they places will be distribute allocated according	ces will be allocated according to completed modules; an places): number of subjecters, places will be allocated. Selection process idered first: Places will bof subject semesters, play become available. 2. In uted among the students ag to the number of subject	s (180 ECTS credits): Should the ording to the following quotas: nong applicants with the same ect semesters of the respective located by lot. A waiting list will be allocated according to the numbers will be allocated by lot. A case that there are places left afin the Master's degree programent sect semesters. Among applicants I be maintained and places re-al-			
o8-TCM3-161-mo1				Programming								
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses				+ Ü (2)							
	Method	l of asse	essment	exam (appr		each (20 to 30 minutes) or c) oral prox. 20 pages) or e) presentation						
08-HKM1-152-m01	Organo	- and Bi	iocatalysi	is								
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	S		S (3)								
	Method of assessment			a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English								

08-MCM2a-161-	Pharma	aceutic	al/Medici	nal Ch	emistry 1							
mo1	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (3)	(3)							
	Method	d of ass	essment	exam (appi	) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral xamination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation approx. 30 minutes) anguage of assessment: German and/or English							
08-MCM2b-161-	Pharmaceutical/Medicinal Chemistry 2											
mo1	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			V (3)	`	·						
	Method	d of ass	essment	exam (appi	) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral xamination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation approx. 30 minutes) anguage of assessment: German and/or English							
03-FU-PM1-152-	Polyme	er Chem	istry 1 (Le	cture	re and Practical Course)							
mo1	ECTS 5 Duration			า	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		V (2)	+ P (2)							
	Method of assessment		essment	prox. Asse Lang	a) assessment and b) Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each prox. 5 to 10 pages each) and assessment of practical assignments (2 to 4 random examinations) Assessment offered: Once a year, winter semester Language of assessment: German and/or English creditable for bonus							
03-FU-PM2-161-	Polyme	ers II										
mo1	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (2) + Ü (1)								
	Method of assessment			a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes)  Language of assessment: German and/or English								
08-HKM3AC-161-	Practic	al cours	se "Homo	geneo	geneous catalysis in Inorganic Chemistry"							
mo1	ECTS 5 Duratio			1	1 semester	Method of grading (	(not) successfully completed	Modul level	graduate			
	Courses			P (6) Module taught in: German or English								
	Method of assessment			report on practical course (approx. 10 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English								

08-HKM30C-161-	Practic	ical course "Homogeneous catalysis in Organic Chemistry"										
mo1	ECTS	5	Duration	า	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course	S		P (6) Modu	le taught in: Germar	n or English						
				Langu	report on practical course (approx. 10 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English							
08-SCM2-161-m01	Supramolecular Chemistry (Practical Course)											
	ECTS	5	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course	S		P (6) Modu	le taught in: Germar	n or English						
	Method	d of asso	essment	and a	ssessment of praction		4 random examinations)	15 minutes eac	h, log approx. 5 to 10 pages each)			
	Module comple											
08-TCM4-161-m01	Quantu	ım Dyna	ımics									
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (2)	+ Ü (2)							
	Method of assessment			exam (appr	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-HKM2-161-m01	Advanc	ed orga	nometall	ic che	nistry and its applic	ation in homogeneo	us catalysis	'				
	ECTS	5	Duratio	<u> </u>	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (3) Modu	le taught in: Germar	n or English						
	Method	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or certain examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) prese (approx. 30 minutes)  Language of assessment: German and/or English										
08-HKM4-161-m01	Advanc	ed tran	sition me	tal che	emistry							
	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (3)								
	Method	d of asso	essment	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) or examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentat (approx. 30 minutes)  Language of assessment: German and/or English								

08-TCAP1-161-m01	Theoretical	Theoretical Chemistry - Project course quantum chemistry												
	ECTS 5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate						
	Courses		P (5)											
	Method of a	ssessment		ntation (approx. 30										
					German and/or Eng									
	Additional I					ock taught lab course with app	rox. 20 working	days.						
08-TCAP2-161-m01				t course quantum dy										
	ECTS 5	Duratio	,	1 semester	Method of grading	(not) successfully completed	Modul level	graduate						
	Courses		P (5)											
	Method of a	issessment		ntation (approx. 30		:l.								
	A -1 -1:4: 1 1	C			German and/or Eng									
0.14614	Additional I		Additi	ional information on	module duration: b	ock taught lab course with app	rox. 20 working	days.						
08-MCM3-172-m01	Drug design			, , , , , , , , , , , , , , , , , , ,	TAA (1 1 C 1'			1						
	ECTS 5	Duratio	,	1 semester	Method of grading	numerical grade	Modul level	graduate						
	Courses		S (2) - Modu	+ U (1) le taught in: Germar	n or English									
	Method of a	issessment	prese Langu	ntation (approx. 30 lage of assessment:	minutes) with discus German and/or Eng	sion lish								
	cation of pla	aces	the same number of subject semesters; students who have chosen Medizinische Chemie (Medicinal Chemistry) as their focus will be given preferential consideration. 6 places for students of the Master's degree programme Biochemie (Biochemistry): Places will be allocated according to the number of subject semesters; among applicants with the same number of subject semesters, places will be allocated by lot.2 places for students of the Master's degree programme MINT-Lehramt PLUS: Places will be allocated according to the number of subject semesters; among applicants with the same number of subject semesters, places will be allocated by lot; a waiting list will be maintained and places re-allocated by lot as they become available											
Focus Subject Com	puter Science	e (o or 6o EC		•		-								
10-HCl=3DUl-161-	3D User Inte													
mo1	ECTS 5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate						
	Courses		V (2) -		1		1	10						
	Method of a	ssessment	Langu		sults (approx. 30 mii German and/or Eng									
10-l=HCl-161-m01	Introduction	n into Huma	n-Comp	outer Interaction										
	ECTS 5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate						
	Courses		V (3) -	+ Ü (1)										
	Method of a	ssessment	presentation of project results (approx. 30 minutes) Language of assessment: German and/or English creditable for bonus											
	Additional Information Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): HCI.													
MINT Teacher Education	PLUS, Elite Networ	k Bavaria (ENB) (2	2020)	•	•	JMU Würzburg • generated 21-Okt-20	23 • exam. reg. data r	ecord 64 i22 - - H 2020 page 39 / 106						

10-HCI=RIS-182-	Real-Ti	me Inte	ractive Sy	/stems	;								
mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		V (2)	+ Ü (2)		•						
	Method	l of ass	essment	If 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 candidate).  Language of assessment: German and/or English creditable for bonus								
	Additio	nal Info	ormation				s programme Informatik (Compublict-specific provisions).	uter Science, 12	o ECTS credits): HCI.				
10-I-REP-152-m01	Exam T	utorial	for the Ge	rman	Staatsexamen			'					
	ECTS	4	Duration	1	2 semester	Method of grading	(not) successfully completed	Modul level	undergraduate				
	Course	S		Ü (2)				,					
	Method	of ass	essment	One exercise per area covered in the state examination									
	Referre	d to in I	-		§ 22    Nr. 2 f) § 22    Nr. 3b								
10-l-3D-152-m01	3D Point Cloud Processing												
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S		V (2)	$V(2) + \ddot{U}(2)$								
	Method	l of ass	essment	written examination (approx. 60 to 120 minutes).  If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per cadate).  Language of assessment: German and/or English creditable for bonus									
	Referre	d to in I	LPO I	§ 22 II Nr. 3b									
10-l=AA-152-m01	Advanc	ed Auto	omation										
	ECTS	8	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course			V (4) + Ü (2)									
	Method	d of ass	essment	written examination (approx. 60 to 120 minutes) creditable for bonus									
	Additio	nal Info		Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT,IS,ES,LR,GE									

10-I=AGIS-161-m01	Algorit	hms for	Geograp	hic Info	ormation Systems							
10 1 71010 101 11101	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	graduate				
	Course			V (2) -	ι + Ü (2)			0				
	Method	d of ass	essment	If ann of one date). Langu	vritten examination (approx. 60 to 120 minutes).  f announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination  of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candilate).  anguage of assessment: German and/or English  reditable for bonus							
	Additio	nal Info	rmation		Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,IS,HCI							
10-I=AG-161-m01	Compu	outational Geometry										
	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (2) ·	$V(2) + \ddot{U}(2)$							
	metnoc	or ass	essment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus								
	Additio	nal Info	ormation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,HCI,GE								
10-l-AGT-152-m01	Algorit	hmic Gı	aph Theo	ry								
	ECTS	5	Duration	1	1 semester	Method of grading   numerical grade	Modul level	undergraduate				
	Course			V (2) ·								
	Method of assessment			written examination (approx. 60 to 120 minutes).  If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate).  Language of assessment: German and/or English creditable for bonus								
	Referre	d to in I	LPO I	§ 22 l	l Nr. 3b							

10-I=APA-161-m01	Approx	imatio	n Algorith	ms								
	ECTS	5	Duration		1 semester	Method of grading   numerical grade	Modul level	graduate				
	Course			V (2) -	+ Ü (2)			10				
	Method	d of ass	essment	If ann of one date). Langu	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus							
	Additio	nal Info	ormation	Focus AT,IT,		dents of the Master's programme Informatik (Comp	outer Science, 120	o ECTS credits):				
10-I=AUT-161-m01	Automa	ata The	ory									
	ECTS	5	Duration		1 semester	Method of grading   numerical grade	Modul level	graduate				
	Course	S		V (2) ·	(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 candidate).  Language of assessment: German and/or English creditable for bonus								
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,IT,ES,HCI,GE								
10-I=AVS-161-m01	Avionic	s Syste	ems				,					
	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (2) ·	+ Ü (2)							
	Method	d of ass	essment	written examination (approx. 60 to 120 minutes).  If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate).  Language of assessment: German and/or English creditable for bonus								
	Additio	nal Info	ormation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): ES,LR								

10-I=BER-161-m01	Compu	omputability Theory											
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		V (2) -	+ Ü (2)			•					
	Method	d of ass	essment	If ann of one date).	ounced by the lect e candidate each (		of the course, the writte r an oral examination in		replaced by an oral examination s (approx. 15 minutes per candi-				
	Additio	nal Info	ormation	Focus	creditable for bonus Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,SE,IT,IS,GE								
07-Bl-161-m01	Bioinfo	rmatics	<u> </u>					'					
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course			V (2) -	+ Ü (2)	, -	-	ļ.					
	wetno	u or ass	essment	If ann of one date).	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate).  Language of assessment: German and/or English creditable for bonus								
10-l=CB-161-m01	Compiler Construction												
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S	•	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 examina of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per ca date).  Language of assessment: German and/or English creditable for bonus									
	Additio	nal Info	rmation	Focus SE,IT,		udents of the Master's	s programme Informatik	(Computer Science, 12	o ECTS credits):				
10-l-DM-152-m01	Data M	ining						'					
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S		V (2) -	+ Ü (2)		•						
	Method	d of ass	essment	written examination (approx. 60 to 120 minutes).  If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate).  Language of assessment: German and/or English creditable for bonus									
	Referred to in LPO I			§ 22 II Nr. 3b									
MINT Teacher Education F	PLUS, Elite	Network Ba	avaria (ENB) (2	020)			JMU Würzburg • generate	d 21-0kt-2023 • exam. reg. data 1	record 64 i22 - - H 2020 page 43 / 106				

10-l=DB2-161-m01	Databa	ses 2										
	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (2)	+ Ü (2)							
	Method	d of ass	essment	If ann of one date) Langu	anguage of assessment: German and/or English creditable for bonus							
	Additio	dditional Information			es available for stu	idents of the Master's programme Informatik (Cor	nputer Science, 12	o ECTS credits): SE, IS, HCI.				
10-l=DDB-172-m01	Deduct	ive Data	abases									
	ECTS 5 Duratio			า	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (2)	(2) + Ü (2)							
		,	essment	If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examin of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per conditate).  Language of assessment: German and/or English creditable for bonus								
. 50 /				Focus	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, SE, IT, IS.							
10-l=ES-161-m01	Embed	<u>-</u>	1			Tak it I c ii I ii ii		1				
		8	Duration		1 semester	Method of grading   numerical grade	Modul level	graduate				
	Method of assessment			$V(4) + \ddot{U}(2)$ written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus								
	Additio	nal Info		Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,SE,ES,LR,GE								

10-l=EL-161-m01	E-Learr	ning				-		_				
	ECTS	5	Duratio	1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (2)	+ Ü (2)							
	Method	d of ass	essment	If ann of one date) Langu	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus							
				SE,IT,	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE,IT,IS,HCI,GE							
10-I=PA-161-m01	Analys	is and I	Design of	Progra	ms							
	ECTS 5 Duratio			1	1 semester	Method of grading   numerical grade	Modul level	graduate				
	Course	S		V (2)	$(2) + \ddot{U}(2)$							
	Method of assessment			written examination (approx. 60 to 120 minutes).  If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate).  Language of assessment: German and/or English creditable for bonus								
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE,IS,ES,GE								
10-I=APR-161-m01	Advanc	ed Pro	gramming									
	ECTS	5	Duratio	1	1 semester	Method of grading   numerical grade	Modul level	graduate				
	Course			$V(2) + \ddot{U}(2)$								
	Method	d of ass	essment	written examination (approx. 60 to 120 minutes).  If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate).  Language of assessment: German and/or English creditable for bonus								
	Additio	nal Info	ormation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE,IS,LR, HCI, ES,GE								

10-I-APR-172-m01	Advanc	ed Prog	ramming										
	ECTS	5	Duration	n	1 semester	Method of grading numer	cal grade	Modul level	undergraduate				
	Course	S	-	V (2)	+ Ü (2)			-	-				
	Methoc	of asse	essment			prox. 60 to 120 minutes).							
				of on date) Lang credi	If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate).  Language of assessment: German and/or English creditable for bonus								
10-I-HWP-152-m01	Practical course in hardware												
	ECTS	10	Duration	า	1 semester	Method of grading (not) s	uccessfully completed	Modul level	undergraduate				
	Course	S		P (6)		<u>.</u>		•	•				
					olio: completion of tes per project)	approx. 3 to 10 project assign	ments (approx. 250 hou	ırs total) and pr	esentation of results (approx. 10				
	Referre	d to in L	PO I	§ 22	3 22 II Nr. 3b								
10-l=IR-161-m01	Informa	ation Re	trieval										
	ECTS	5	Duratio	า	1 semester	Method of grading numer	cal grade	Modul level	graduate				
	Course	 S		V (2)	+ Ü (2)								
	Method	l 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 candidate). Language of assessment: German and/or English creditable for bonus									
	Additio	nal Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT,IS,HCI,GE									
10-l-lCG-152-m01	Interac	tive Cor	nputer Gr	aphic	S								
	ECTS	5	Duratio	า	1 semester	Method of grading numer	cal grade	Modul level	undergraduate				
	Course	S	-	V (2)	+ Ü (2)			•					
	Methoc	of asse	essment			prox. 60 to 120 minutes).							
		If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate).  Language of assessment: German and/or English creditable for bonus											
	Referre	d to in L	PO I	§ 22 II Nr. 3b									

10-l-KT-191-m01	Computational Complexity											
	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	S		V (2) -	+ Ü (2)		7					
	Method	d of ass	essment	written examination (approx. 60 to 120 minutes).  If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination								
				of one date). Asses Langu	of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-							
10-I=KT2-161-m01	Computational Complexity II											
	ECTS	5	Duration	ı	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (2) -	+ Ü (2)							
	Method	d of ass	essment	If ann of one date).	written examination (approx. 60 to 120 minutes).  If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate).  Language of assessment: German and/or English creditable for bonus							
				AT,SE	,IT,ES	udents of the Master's programme Informatik (Com	puter Science, 12	o ECTS credits):				
10-l-KD-191-m01	Cryptography and Data Security											
	ECTS	5	Duration		1 semester	Method of grading   numerical grade	Modul level	undergraduate				
	Course			V (2) -								
	Method	d of ass	essment	If ann of one date). Assestange	ounced by the lec e candidate each ( ssment offered: In	prox. 60 to 120 minutes). turer at the beginning of the course, the written exa approx. 20 minutes) or an oral examination in grou the semester in which the course is offered and in total it: German and/or English	ps of 2 candidates	s (approx. 15 minutes per candi-				
10-I-LOG-152-m01	Logic f	or infori	matics				•					
	ECTS	5	Duration	1	1 semester	Method of grading   numerical grade	Modul level	undergraduate				
	Course	S		V (2) -	+ Ü (2)							
	Method	d of ass	essment	written examination (approx. 60 to 120 minutes).  If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate).  Language of assessment: German and/or English creditable for bonus								
	Referred to in LPO I			§ 22 II Nr. 3b								

10-I-PV-152-m01	Project	Project Presentation											
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S		S (5)	•								
	Method	d of ass	essment		presentation of a project developed by the candidate analogous to a presentation for laypersons with a knowledge of compu-								
					er science at a trade fair as well as discussion (approx. 10 to 15 minutes total) anguage of assessment: German and/or English								
	Referre	d to in I	PO I		3 22 II Nr. 3b								
10-I-RAL-152-m01			ter syster		1111. )5								
	ECTS	10	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses			V (4)	+ Ü (2)								
	Method	d of ass	essment	. ,.		rox. 60 to 120 minute	es).						
				If ann	ounced by the lectu	rer at the beginning of	of the course, the written exam		replaced by an oral examination s (approx. 15 minutes per candi-				
				date)		oprox. 20 mmates) or	an oral examination in groups	or 2 candidate	s (approx. 15 minutes per canal				
				credit	creditable for bonus								
10-I-RAK-152-m01	Computer Architecture												
	ECTS 5 Duratio				1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses			V (2)	+ Ü (2)								
	Method of assessment			If ann of one date) Langu	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus								
	Referred to in LPO I			§ 22 II Nr. 3b § 69 I Nr. 1c: Rechnerarchitektur									
10-l-RIÜ-191-m01	Compu	ter Netv	works and	Inform	nation Transmission	1							
	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S		V (4)	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 cadate). creditable for bonus									

10-I=RK-161-m01	Computer Netwo	orks and	Communication Syste	ms								
	ECTS 8	Duration	1 semester	Method of grading numerical grade	Modul level	graduate						
	Courses	Ī	V (4) + Ü (2)	·								
	Method of asses			pprox. 60 to 120 minutes).								
			f announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate).									
			Language of assessme creditable for bonus									
	Additional Inform	mation	Focuses available for s	uses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT, ES, LR.								
10-I-SEM1-152-m01												
	ECTS 5	Duration		Method of grading   numerical grade	Modul level	undergraduate						
	Courses		S (2)									
	Method of asses		written elaboration (approx. 10 to 15 pages) and presentation (approx. 30 to 45 minutes) with subsequent discussion on a topic from the field of computer science Language of assessment: German and/or English									
	Referred to in LP	1 09	§ 22 II Nr. 3b									
10-I-TIV-152-m01	Theoretical Informatics											
	ECTS 5	Duration	1 semester	Method of grading numerical grade	Modul level	undergraduate						
	Courses		V (4)									
	Method of asses		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 examin of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per c date).									
	Referred to in LP		§ 49   Nr. 1a § 69   Nr. 1a									
10-I-TIT-191-m01	Tutorial Theoret	ical Info	rmatics		·							
	ECTS 5	Duration	1 semester	Method of grading (not) successfully com	pleted   Modul level	undergraduate						
	Courses		Ü (2)	·								
	Method of asses			g in completion of approx. 11 home work exercis ox. 5 short assessments written in the exercise n Prüfling festzulegen								

10-I-WBS-152-m01	Knowle	edge-ba	sed Syste	ems							
	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Course	S		V (2)	+ Ü (2)		•				
	Method	d of ass	essment	If anr of on date) Langi	vritten examination (approx. 60 to 120 minutes).  announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination fone candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candiate).  ate).  anguage of assessment: German and/or English reditable for bonus						
	Referre	d to in	LPO I	§ 22 l	I Nr. 3b						
10-I=AKA-161-m01	Selecte	ed Topi	cs in Algo	rithms							
	ECTS	5	Duration	1	1 semester	Method of grading   numerical grade	Modul level	graduate			
	Course	S		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 candidate).  Language of assessment: German and/or English creditable for bonus							
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits):  AT							
10-l=A-	Selecte	ed Topi	cs in Embe	edded	Systems						
KES-161-m01	ECTS	5	Duration	1	1 semester	Method of grading   numerical grade	Modul level	graduate			
	Course	S		V (2)	+ Ü (2)			_			
	Method	d of ass	essment	written examination (approx. 60 to 120 minutes).  If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate).  Language of assessment: German and/or English creditable for bonus							
	Additio	nal Info	ormation	Focus	ses available for st	udents of the Master's programme Informatik (C	Computer Science, 12	o ECTS credits): ES.			

10-I=AKH-	Selecte	ed Topic	s in HCI										
Cl-182-m01	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	:S		V (2) ·	+ Ü (2)								
	Method	d of asso	essment	If ann of one date). Langu	written examination (60 to 120 minutes).  If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate).  Language of assessment: German and/or English creditable for bonus								
	Additional Information				creditable for bonus focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): HCI.								
10-l=AKII-182-m01			s in Comp			- The master s	programme imormatiik (compe						
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course		1 2 4. 4. 6. 6.	V (2) -			Hamenout grade	, moder to to	13.44444				
	Method	d of asso	essment	If ann of one date). Langu	written examination (approx. 60 to 120 minutes).  If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate).  Language of assessment: German and/or English creditable for bonus								
10-l=AKIS-161-m01	Selecte	ed Topic	s in Intell	igent	Systems								
	ECTS 5 Duratio			ı	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	:S		V (2) ·	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 candidate). Language of assessment: German and/or English creditable for bonus									
						idents of the Master's	programme Informatik (Compu	ıter Science, 120	o ECTS credits): IS.				
10-I=AKIT-161-m01					hnologies								
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course			V (2) ·									
	Method of assessment			If ann of one date). Langu	written examination (approx. 60 to 120 minutes).  If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate).  Language of assessment: German and/or English creditable for bonus								
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT.									

10-l=A-	Select	ed Topi	cs in IT Se	curity								
KITS-172-mo1	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	es			/ (2) + Ü (2) Module taught in: English							
	Metho	d of ass	sessment	If ann of one date). Langu	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: English creditable for bonus							
	Additional Information			Focus ES.	ses available for st	tudents of the Master's programme Informatik (	Computer Science, 12	o ECTS credits): SE, IS, LR, HCI,				
10-I=AKL-	Select	ed Topi	cs in Aero	space	Engineering							
R-161-m01	ECTS 5 Duratio			1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	es		V (2) ·	+ Ü (2)							
	Method of assessment			If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate).  Separate written examination for Master's students.  Language of assessment: German and/or English creditable for bonus								
				Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): LR.								
10-I=AKT-161-m01		ed Topi	cs in Theo	<u> </u>								
	ECTS	5	Duration		1 semester	Method of grading   numerical grade	Modul level	graduate				
		d of ass		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 candidate).  Language of assessment: German and/or English creditable for bonus								
	Additio	onal Inf	ormation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT								

10-l=AK-	Selecte	ed Topic	s in Softv	vare E	ngineering		1					
SE-161-m01	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	!S		V (2)	+ Ü (2)	·						
				If anr of on date) Langu credi	written examination (approx. 60 to 120 minutes). f announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus							
				Focus	ses available for stu	dents of the Master's programme Informatik (Co	omputer Science, 12	o ECTS credits): SE.				
10-l=Kl1-161-m01			igence 1			<u>,                                      </u>						
	ECTS	5	Duration		1 semester	Method of grading   numerical grade	Modul level	graduate				
	Course	es.		V (2)	(2) + Ü (2)							
	method of dissessment			written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus								
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,SE,IS,HCI								
10-l=Kl2-161-m01	$\overline{}$	al Intell	igence 2									
	ECTS	5	Duration		1 semester	Method of grading   numerical grade	Modul level	graduate				
	Course	-			+ Ü (2)			_				
	Metho	d of ass	essment	written examination (approx. 60 to 120 minutes).  If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate).  Language of assessment: German and/or English creditable for bonus								
	Additio	onal Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,SE,IS,HCI,GE								

10-l=LVS-161-m01	Perforn	nance E	valuation	of Dis	tributed Systems	'						
	ECTS	8	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S	•	V (4)	+ Ü (2)							
	Method	d of ass	essment	If anr of on date) Lang	ritten examination (approx. 60 to 120 minutes).  announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination fone candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candiate).  anguage of assessment: German and/or English reditable for bonus							
	Additio	nal Info	ormation	Focus	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits):  AT,IT,GE							
10-l=LP-172-m01	Logic P	rogran	nming	•								
	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (2)	+ Ü (2)							
	Method	d of ass	essment	If anr of on date) Lang	written examination (approx. 60 to 120 minutes).  If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate).  Language of assessment: German and/or English creditable for bonus							
	Additio	nal Info	ormation	Focus	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, SE, IT, IS.							
10-l=NLP-182-m01	Machir	ne Leari	Learning for Natural Language Processing									
	ECTS	5	Duration	<u> </u>	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (2)	+ Ü (2)	<u> </u>		'	•			
	Method	d of ass	essment	If anr of on date) Lang	nounced by the lect e candidate each (a		of the course, the writer an oral examination		replaced by an oral examination s (approx. 15 minutes per candi-			
	Additio	nal Info	ormation	Focus	ses available for stu	udents of the Master's	programme Informati	k (Computer Science, 12	o ECTS credits): AT, IS, HCI.			
10-HCI=M-	Machir	ie Leari	ning (for U	ser In	terfaces)							
LUI-161-m01	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (2)	+ Ü (2)							
	Method	d of ass	essment	presentation of project results (approx. 40 minutes) Language of assessment: German and/or English creditable for bonus								

10-l=ML-161-m01	Mathe	matical	Logic									
	ECTS	5	Duration	1 semester	Method of grading numerical grad	le Mo	odul level	graduate				
	Course	!S		V (2) + Ü (2)		·						
	Method	d of ass		If announced by the loof one candidate each date).	inguage of assessment: German and/or English							
	Additio	onal Info	rmation		ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits):							
10-l=Ml-161-m01	Medica	al Inforn	natics									
	ECTS 5 Duratio			1 semester	Method of grading numerical grad	le Mo	odul level	graduate				
	Course	:S		V (2) + Ü (2)	·	•						
	Metho	d of ass	essment	written examination (approx. 60 to 120 minutes).  If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate).  Language of assessment: German and/or English creditable for bonus								
	Additio	onal Info	ormation	Focuses available for SE,IT,IS,HCI,GE	students of the Master's programme Info	ormatik (Computer S	Science, 12	o ECTS credits):				
10-HCI=M-	Multimodal User Interfaces											
MUI-161-m01	ECTS	5	Duration	1 semester	Method of grading numerical grad	le Mo	odul level	graduate				
	Course	25		V (2) + Ü (2)		·						
	Metho	d of ass	essment	presentation of project results (approx. 40 minutes) Language of assessment: German and/or English creditable for bonus								
10-I=PEB-161-m01	Perfori	mance E	ngineerin	g & Benchmarking of	Computer Systems	,						
	ECTS	5	Duration	1 semester	Method of grading numerical grad	le Mo	odul level	graduate				
	Course	25		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 candidate).  Language of assessment: German and/or English creditable for bonus								
	Additio	onal Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE,IT,ES,HCI,GE								

10-I=PRAK-161-	Practic	al cour	se - Currer	nt Topi	ics in Computer Sci	ence		-				
mo1	ECTS	10	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course	S		P (6)								
	Method	d of ass	essment		paper (5 to 15 page							
					Language of assessment: German and/or English							
	Additio	nal Info	ormation		ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): T,SE,IT,IS,ES,LR,HCI,GE							
10-I=PM-182-m01	Profess	sional P	Project Ma	nagen	agement							
	ECTS 5 Duration			า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (4)								
	Method of assessment			If anr of on date) Langu credi	tten examination (approx. 60 to 120 minutes). nnounced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candite). nguage of assessment: German and/or English ditable for bonus							
	other p	rerequi	isites	Simu	Simultaneous completion of module 10-I=PRJAK is recommended.							
	Additio	nal Info			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE, IT, IS, ES, LR, HCI, GE.							
10-I=PNN-182-m01	Prograi	mming	with neur	al nets	5							
	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (2)	+ Ü (2)							
	Method	d of ass	sessment	If anr of on date) Langi	written examination (approx. 60 to 120 minutes).  If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate).  Language of assessment: German and/or English creditable for bonus							
	Additio	nal Info	ormation	Focus	ses available for stu	dents of the Master	s programme Informatik (Compu	iter Science, 120	o ECTS credits): SE, IT, IS, HCI, GE.			
10-I=PRJAK-162-	Project	- Curre	ent Topics	in Cor	nputer Science							
mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		P (4)								
				Each Asses Asses Lange	project report (10 to 15 pages) and presentation of project (15 to 30 minutes)  Each project is offered one time only. The project will not be repeated; there will not be another project with the same topic.  Assessment can, therefore, only be offered for the project offered in the respective semester.  Assessment offered: In the semester in which the course is offered  Language of assessment: German and/or English							
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, SE, IT, IS, ES, LR, HCI, GE.								

10-I=RAM-161-m01	Comput	er Arithm	etic					-	-			
	ECTS	5 D	uration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5		V (2) -	+ Ü (2)			•				
				If ann of one date). Langu credit	anguage of assessment: German and/or English reditable for bonus							
	Addition	nal Inform		Focus AT,ES	ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): T,ES							
10-l=RO1-182-m01	Robotic	S 1										
	ECTS	8 0	uration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5			u) + Ü (2) dule taught in: English							
	Method	of assess		Separ Langu	written examination (approx. 60 to 90 minutes) Separate written examination for Master's students. Language of assessment: English creditable for bonus							
	Addition	nal Inform		Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IS, ES, LR, HCI, GE.								
10-l=RO2-152-mo1	Robotic	S 2										
	ECTS	8 0	uration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			V (4) -								
	Method	of assess	sment		n examination (appable for bonus	prox. 60 to 90 minute	es)					
	Addition	nal Inform		Focus IT,ES,		udents of the Master'	s programme Informati	k (Computer Science, 12	o ECTS credits):			
10-I=SEM3-161-	Semina	r 1 - Curre	nt Topi	cs in C	omputer Science							
mo1	ECTS	5 D	uration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5		S (2)								
	Method	of assess		puter	science	es) and presentation t: German and/or Eng		h subsequent discussior	n on a topic from the field of com-			
	Addition	nal Inform		Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, SE, IT, IS, ES, LR, HCI.								

10-I=SEM4-161-	Semina	Seminar 2 - Current Topics in Computer Science										
mo1	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (2)								
	Method	d of ass	essment		term paper (10 to 15 pages) and presentation (30 to 45 minutes) with subsequent discussion on the topic of the seminar Language of assessment: German and/or English Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,SE,IT,IS,ES,L-R,HCI,GE							
	Additio	nal Info	rmation									
10-l=SSS-172-m01	Securit	y of Sof	tware Sys	stems								
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			+ Ü (2) le taught in: English	1						
	Method	. 01 433		written examination (approx. 60 to 120 minutes).  If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate).  Language of assessment: English creditable for bonus								
	Additio	nal Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE, IS, LR, HCI, ES.  Basic programming knowledge in C is required.								
10-l=ST-161-m01	Discrete Event Simulation											
	ECTS	8	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	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 candidate).  Language of assessment: German and/or English creditable for bonus								
	Additio	nal Info		Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT,IS,ES,GE								

10-I=SAR-161-m01	Software Architecture											
	ECTS	5	Duration	า	1 semester	Method of grading   numerical grade	M	lodul level	graduate			
	Course	!S		V (2) ·	+ Ü (2)	·			-			
	Method	d of ass	essment	If ann of one date). Langu	written examination (approx. 60 to 120 minutes).  If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate).  Language of assessment: German and/or English creditable for bonus							
	Additio	onal Info	ormation	Focus	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE,IT,ES							
10-I=SSD-152-m01	Spacecraft System Design											
	ECTS	8	Duration	1	1 semester	Method of grading   numerical grade	M	lodul level	graduate			
	Course	!S		V (4) ·	+ Ü (2)							
	Method	d of ass	essment		written examination (approx. 60 to 120 minutes) creditable for bonus							
	Additio	onal Info	rmation		Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): ES, LR							
10-l=STM-162-m01	NLP and Text Mining											
	ECTS	5	Duration	1	1 semester	Method of grading   numerical grade	M	lodul level	graduate			
	Course	!S		V (2) ·	$V(2) + \ddot{U}(2)$							
	Method of assessment			written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English								
	Additio	onal Info	rmation	Focus	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, IT, HCI.							
10-l=VG-161-m01	Visuali	zation o	of Graphs									
	ECTS	5	Duration		1 semester	Method of grading   numerical grade	M	lodul level	graduate			
	Course	es .		V (2) ·	+ Ü (2)							
	Method of assessment			written examination (approx. 60 to 120 minutes).  If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate).  Language of assessment: German and/or English creditable for bonus								
	Additio	onal Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,IT,HCI,GE								

Focus Subject Con	puter M	athema	tics (o or	<b>60 EC</b> 1	S credits)							
10-M=VAT-	Algebra	aic Topo	ology									
P-161-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			V (4) + Ü (2) Module taught in: German and/or English							
	Method	d of ass	essment	minu Asses Langı	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German or English creditable for bonus							
10-M=AAAN-161-	Applie	d Analy	sis									
mo1	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses				/ (4) + Ü (2)  Module taught in: German and/or English							
	Method	d of ass	essment	minu Asses Langi	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate)  Assessment offered: In the semester in which the course is offered and in the subsequent semester  Language of assessment: German or English  creditable for bonus							
10-M=AAL-	Topics in Algebra											
G-161-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (4) + Ü (2) Module taught in: German and/or English								
	Method of assessment			a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approximates) or c) oral examination in groups (groups of 2, 15 minutes per candidate)  Assessment offered: In the semester in which the course is offered and in the subsequent semester  Language of assessment: German or English  creditable for bonus								
10-M=V-	Aspect	s of Geo	metry	•				'				
GEO-161-m01			Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	Courses			+ Ü (1) ıle taught in: Germ	an and/or English						
	Method	d of ass	essment	a) written examination (approx. 60 to 90 minutes, usually chosen) or b) oral examination of one candidate each (approx. 15 minutes) or c) oral examination in groups (groups of 2, approx. 10 minutes per candidate) Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German or English creditable for bonus								

10-M=VA-	Selected To	pics in Anal	ysis	-			,					
NA-161-m01	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	·		+ Ü (2) ıle taught in: Germa	n and/or English		,					
	Method of a	ssessment	minut Asses Langu	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German or English creditable for bonus								
10-M=VFN-	Selected To	pics in Fina	cs in Financial Mathematics									
M-161-m01	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		$V(4) + \ddot{U}(2)$ Module taught in: German and/or English									
	Method of a	ssessment	minut Asses Langu	n) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 ninutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) assessment offered: In the semester in which the course is offered and in the subsequent semester anguage of assessment: German or English reditable for bonus								
10-M=VOP-	Selected To	pics in Opti										
T-161-mo1	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			V (4) + Ü (2) Module taught in: German and/or English								
	Method of a	ssessment	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (apminutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German or English creditable for bonus									
10-M=ADG-	Differential	Geometry										
M-161-mo1	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		V (4) + Ü (2) Module taught in: German and/or English									
	Method of a	ssessment	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German or English creditable for bonus									

10-M=V-	Discrete	e Math	ematics		'			,				
DIM-161-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5			+ Ü (1) ıle taught in: Germa	n and/or English		,				
	Method	of ass	essment	minu Asses Langi	tes) or c) oral exami ssment offered: In th	nation in groups (gro	ups of 2, approx. 10 m	r b) oral examination of inutes per candidate) and in the subsequent se	one candidate each (approx. 15			
10-M=VD-	Dynami	cal Sys	tems									
SY-161-mo1	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5		V (3) + Ü (1) Module taught in: German and/or English								
	Method	of ass	essment	minu Asses Langi	ninutes) or c) oral examination (approx. 60 to 90 minutes, usually chosen) or b) oral examination of one candidate each (approx. 15 ninutes) or c) oral examination in groups (groups of 2, approx. 10 minutes per candidate) assessment offered: In the semester in which the course is offered and in the subsequent semester anguage of assessment: German or English reditable for bonus							
10-M=AFT-	Comple	x Analy	/sis									
H-161-mo1	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5			V (4) + Ü (2) Module taught in: German and/or English							
	Method	of ass	essment	minu Asses Langi	tes) or c) oral exami ssment offered: In th	nation in groups (gro	ups of 2, 15 minutes p	or b) oral examination of er candidate) and in the subsequent se	f one candidate each (approx. 20			
10-M=V-	Geomet	rical M	echanics									
GEM-161-mo1	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5		$V(4) + \ddot{U}(2)$ Module taught in: German and/or English								
	Method	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate)  Assessment offered: In the semester in which the course is offered and in the subsequent semester  Language of assessment: German or English creditable for bonus										

10-M=AGMS-161-	Geome	tric Stru	ıctures					'					
mo1	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S			+ Ü (2) ıle taught in: Gern	nan and/or English		,					
	Method	d of ass	essment	minu Asses Langi	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German or English Creditable for bonus								
10-M-HAG-Ü-162-	Overvie	w Alge	bra and G	eome	try (Differential Go	eometry or Projective G	eometry) for Teaching	Degree (German Gymna	asium)				
mo1	ECTS	10	Duratio	n	1 semester	undergraduate							
	Course	S		V (4)	+ Ü (2)				•				
	Method	of ass	essment			e candidate each (20 to nt: German and/or Eng							
10-M-HHA-Ü-162- mo1	Overvie plex Ar			is for	for Teaching Degree (German Gymnasium) (Differential Equations and Complex Analysis, or Advanced Analysis and Com-								
	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses			V (4)	+ Ü (2)								
	Method	d of ass	essment	oral e Langi									
10-M-HSA-Ü-162-	Overvie	w Stoc	Stochastics and Applied Mathematics (Numerical Mathematics 1 or Discrete Mathematics) for Teaching Degree (German Gymnasium)										
mo1	ECTS	8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S		V (4)	+ Ü (2)								
	Method	d of ass	essment			e candidate each (20 to nt: German and/or Eng							
10-M=AGP-	Giovan	ni Prodi	Lecture (	(Maste	er)								
C-161-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		Modu	V (3) + Ü (1) Module taught in: German and/or English								
	Method	a) written examination (approx. 60 to 90 minutes, usually chosen) or b) oral examination of one candidate each (approx. 15 minutes) or c) oral examination in groups (groups of 2, approx. 10 minutes per candidate)  Assessment offered: In the semester in which the course is offered and in the subsequent semester  Language of assessment: German or English creditable for bonus											

10-M=AOP-	Basics	in Opti	mization		'			'				
T-161-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			+ Ü (2) ıle taught in: Germa	n and/or English		,				
	Method	d of ass	essment	minu Asses Langu	tes) or c) oral exami	nation in groups (gro ne semester in which	utes, usually chosen) or bups of 2, 15 minutes per of the course is offered and	candidate)	one candidate each (approx. 20			
10-M=VGDS-161-	Groups	and th	their Representations									
mo1	ECTS	10	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			4) + Ü (2) odule taught in: German and/or English							
	Method	d of ass	essment	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate)  Assessment offered: In the semester in which the course is offered and in the subsequent semester  Language of assessment: German or English creditable for bonus								
10-M=AIST-161-	Industr	ial Stat	istics 1									
mo1	ECTS	10	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			V (4) + Ü (2) Module taught in: German and/or English							
	Method	d of ass	essment	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (app minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German or English creditable for bonus								
10-M=VIST-161-	Industr	ial Stat	istics 2					,				
mo1	ECTS	10	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (4) + Ü (2) Module taught in: German and/or English								
	Method	d of ass	essment	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate)  Assessment offered: In the semester in which the course is offered and in the subsequent semester  Language of assessment: German or English creditable for bonus								

10-M=V-	Field A	rithmet	ics			,						
KAR-161-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			+ Ü (2) ıle taught in: Germ	nan and/or English		•				
	Method	d of ass	essment	minu Asses Langi	) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. ninutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) ssessment offered: In the semester in which the course is offered and in the subsequent semester anguage of assessment: German or English reditable for bonus							
10-M=ALTH-161-	Lie The	ory						'				
mo1	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			+ Ü (2) ıle taught in: German and/or English							
	Method	d of ass	essment	minu Asses Langi	written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 inutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) ssessment offered: In the semester in which the course is offered and in the subsequent semester anguage of assessment: German or English editable for bonus							
10-M=ANG-	Numer	ic of Lar	ge Systei	ns of E	quations							
G-161-m01	ECTS								graduate			
	Course	S			V (4) + Ü (2) Module taught in: German and/or English							
	Method	d of ass	essment									
10-M=VN-	Numer	ic of Pa	rtial Diffe	rential	Equations							
PE-161-mo1	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	Courses			V (4) + Ü (2) Module taught in: German and/or English							
	Method of assessment			a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German or English creditable for bonus								

10-M=ARTH-161-	Control	Control Theory													
mo1	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate						
	Course	S			+ Ü (2) ıle taught in: Germa	n and/or English		·							
	Method	d of ass	essment	minu Asses Langu	written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (appro ninutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) ssessment offered: In the semester in which the course is offered and in the subsequent semester anguage of assessment: German or English reditable for bonus										
10-M=V-	Statisti	ical Ana	llysis					'							
STA-161-m01	ECTS	10	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate						
	Course	S		V (4) + Ü (2) Module taught in: German and/or English											
	Method	d of ass	essment	minu Asses Langu	n) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 ninutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Assessment offered: In the semester in which the course is offered and in the subsequent semester anguage of assessment: German or English creditable for bonus										
10-M=ASM-	Stocha	ochastic Models of Risk Management													
R-161-mo1	ECTS	10	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	graduate						
	Course	S		V (4) + Ü (2) Module taught in: German and/or English											
	Method	d of ass	essment	minu Asses Langu	tes) or c) oral exami	nation in groups (gro ne semester in which	utes, usually chosen) or l ups of 2, 15 minutes per the course is offered and	candidate)	one candidate each (approx. 20						
10-M=AST-	Stocha	stical P	rocesses												
P-161-mo1	ECTS	10	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate						
	Course	S	V (4) + Ü (2) Module taught in: German and/or English												
	Method	d of ass	essment 	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate)  Assessment offered: In the semester in which the course is offered and in the subsequent semester  Language of assessment: German or English creditable for bonus											

10-M=A-	Topolo	gy			'	,					
TOP-161-mo1	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S			+ Ü (2) ıle taught in: Germa	n and/or English					
	Method	d of ass	essment	minu Asses Langi	tes) or c) oral exami	nation in groups (gro ne semester in which	utes, usually chosen) or by ups of 2, 15 minutes per cathe course is offered and	andidate)	one candidate each (approx. 20 emester		
10-M=AVS-	Insurar	rance Mathematics 1									
M-161-mo1	ECTS	10	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V (4) + Ü (2) Module taught in: German and/or English							
	Method	d of ass	essment	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate)  Assessment offered: In the semester in which the course is offered and in the subsequent semester  Language of assessment: German or English creditable for bonus							
10-M=VVS-	Insurar	ice Mat	hematics	2				,			
M-161-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S			V (4) + Ü (2) Module taught in: German and/or English						
	Method	d of ass	essment	minu Asses Langi	tes) or c) oral exami	nation in groups (gro ne semester in which	utes, usually chosen) or by ups of 2, 15 minutes per cathe course is offered and	andidate)	one candidate each (approx. 20 emester		
10-M=AZTH-161-	Numbe	r Theor	у								
mo1	ECTS	10	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V (4) + Ü (2) Module taught in: German and/or English							
	Method	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate)  Assessment offered: In the semester in which the course is offered and in the subsequent semester  Language of assessment: German or English  creditable for bonus									

10-M=AZ-	Time Series Analysis 1												
RA-161-mo1	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Cour	ses			- ⊦ Ü (2) le taught in: German	and/or English		·					
	Meth	nod of ass	essment	minut Asses Langu	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Assessment offered: In the semester in which the course is offered and in the subsequent semester anguage of assessment: German or English creditable for bonus								
10-M=VZ-		Series Ar	alysis 2										
RA-161-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Cour	Courses V (4) + Ü (2) Module taught in: German and/or English  Method of assessment a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx.											
				minut Asses Langu	ninutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) ssessment offered: In the semester in which the course is offered and in the subsequent semester anguage of assessment: German or English reditable for bonus								
10-M=MP2-161-	Alge	bra and D	ynamics o	of Quar	tum Systems								
mo1	ECTS	10	Duratio	,	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Cour	ses		V (4) - Modu	+ Ü (2) le taught in: German	and/or English							
	Meth	Method of assessment  a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidat minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate)  Language of assessment: German or English  creditable for bonus							one candidate each (approx. 20				
10-M=MP1-161-	Analy	ysis and G	eometry	of Clas	sical Systems								
mo1	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Cour	ses			V (4) + Ü (2) Module taught in: German and/or English								
	Meth	od of ass	essment	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English creditable for bonus									

10-M=VAD-	Applied Diff	erential Geo	metry		,						
G-161-mo1	ECTS 10	Duratio	n 1 semes	ster	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (4) + Ü (2) Module taugh	t in: Germa	ın and/or English						
	Method of a	issessment	minutes) or c) Assessment o Language of a	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate)  Assessment offered: In the semester in which the course is offered and in the subsequent semester  Language of assessment: German or English creditable for bonus							
10-M=GAL-	Research in	Groups - Al	ebra								
G-161-mo1	ECTS 10	Duratio	n 1 seme	ster	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (2) + S (2) Module taugh	t in: Germa	ın and/or English						
	Method of a	ssessment	talk (60 to 120 Assessment o Language of a	ffered: In tl	he semester in which :: German or English	the course is offered	and in the subsequent s	emester			
10-M=GDF-	Research in	Groups - De	formation Qua	ntization			,				
Q-161-mo1	ECTS 10	Duratio	n 1 seme	ster	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (2) + S (2) Module taught in: German and/or English								
	Method of a	ssessment	talk (60 to 120 minutes) Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German or English								
10-M=GD-	Research in	Groups - Di	fferential Geom	etry			,				
GE-161-m01	ECTS 10	Duratio	n 1 seme	ster	Method of grading	numerical grade	Modul level	graduate			
	Courses	,	V (2) + S (2) Module taugh	t in: Germa	ın and/or English						
	Method of a	issessment		ffered: In tl	he semester in which :: German or English	the course is offered	and in the subsequent s	emester			
10-M=G-	Research in	Groups - Di	screte Mathem	atics			, 				
DIM-161-m01	ECTS 10	10 Duration 1 semester Method of grading numerical grade Modul level graduate									
	Courses		V (2) + S (2) Module taugh	t in: Germa	ın and/or English		^				
	Method of a	ssessment	talk (60 to 120 minutes) Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German or English								

10-M=GD-	Researc	ch in G	roups - Dy	rnamical Systems and Control Theory								
SC-161-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	S	·		+ S (2) Ile taught in: Germa	an and/or English						
	Method	d of ass	sessment	Asse	alk (60 to 120 minutes) Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German or English							
10-M=G-	Researc	ch in G	roups - Co	mplex	Analysis			,				
COA-161-m01	ECTS	10	Duratio	5 5 5					graduate			
	Courses	S			+ S (2) ıle taught in: Germa	an and/or English						
	Method	d of ass	sessment	talk (60 to 120 minutes) Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German or English								
10-M=GGM-	Researc	rrch in Groups - Geometry and Topology										
T-161-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			+ S (2) ıle taught in: Germa	an and/or English	•					
	Method	d of ass	sessment	Asse	talk (60 to 120 minutes) Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German or English							
10-M=GC-	Researc	ch in G	roups - Co	ontrol Theory of Quantum Mechanical Systems								
QS-161-mo1	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			+ S (2) ıle taught in: Germa	an and/or English		•				
	Method	d of ass	sessment									
10-M=G-	Researe	ch in G	roups - M	easure	and Integral			'				
MAI-161-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	Courses			V (2) + S (2) Module taught in: German and/or English							
	Method	Method of assessment										

10-M=GM-	Resear	ch in G	roups - Ma	them	atics in Context	,		1	1				
CX-161-mo1	ECTS	10	Duratio	ı	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S	,		+ S (2) ıle taught in: Ger	man and/or English							
				Asse Lang	lk (60 to 120 minutes) ssessment offered: In the semester in which the course is offered and in the subsequent semester anguage of assessment: German or English								
10-M=GM-	Research in Groups - Mathematics in the Sciences												
SC-161-m01	ECTS	10	Duratio	n 1 semester Method of grading numerical grade Modul leve				Modul level	graduate				
	Course	S			+ S (2) ıle taught in: Ger	man and/or English							
	Method	d of ass	essment	Asse	lk (60 to 120 minutes) ssessment offered: In the semester in which the course is offered and in the subsequent semester anguage of assessment: German or English								
10-M=GN-	Resear	ch in G	roups - Nu	meric	rical Mathematics and Applied Analysis								
MA-161-m01	ECTS	10	Duratio	i i	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses				/ (2) + S (2) Module taught in: German and/or English								
	Method of assessment			Asse	ssment offered: I		the course is offered an	nd in the subsequent se	emester				
10-M=GROC-161-	Research in Groups - Robotics, Optimization and Control Theory												
mo1	ECTS	10	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses				V (2) + S (2) Module taught in: German and/or English								
	Method	d of ass	essment	Asse	talk (60 to 120 minutes) Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German or English								
10-M=G-	Resear	ch in G	roups - St	atistic	s								
STA-161-m01	ECTS 10 Duratio		1	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses				V (2) + S (2) Module taught in: German and/or English								
	Method of assessment			talk (60 to 120 minutes) Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German or English									

10-M=GNTH-161-	Resear	Research in Groups - Number Theory												
mo1	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	S			(2) + S (2)  Module taught in: German and/or English									
	Method	l of asso	essment	Asses	alk (60 to 120 minutes) Assessment offered: In the semester in which the course is offered and in the subsequent semester anguage of assessment: German or English									
10-M=GT-	Resear	ch in Gr	oups - Tir	me Series Analysis										
SA-161-mo1	ECTS	10	Duration	<u> </u>	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	S			V (2) + S (2)  Module taught in: German and/or English									
	Method	l of asso	essment	ent talk (60 to 120 minutes) Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German or English										
10-M=VMPH-161-	Selecte	d Topic	s in Math	nematical Physics										
mo1	ECTS			า	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	S			(4) + Ü (2) Nodule taught in: German and/or English									
	Method	l of asso	essment	minut Asses Langu	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German or English creditable for bonus									
10-M=V-	Selecte	d Topic	s in Cont	rol The	ory			'						
TRT-161-m01	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	s 		$V(4) + \ddot{U}(2)$ Module taught in: German and/or English										
	Method of assessment			a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate)  Assessment offered: In the semester in which the course is offered and in the subsequent semester  Language of assessment: German or English creditable for bonus										

10-M=AF-	Functio	Functional Analysis												
AN-161-mo1	ECTS	10	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	S			V (4) + Ü (2) Module taught in: German and/or English									
	Method	d of ass	essment	minu Asses Langu	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German or English creditable for bonus									
10-M=VG-	Giovan	ni Prodi	Lecture A	Advand	ced Topics (Master)									
PA-161-mo1	ECTS	10	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses				+ Ü (2) ıle taught in: Germa	n and/or English								
	Method of assessment			a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate)  Assessment offered: In the semester in which the course is offered and in the subsequent semester  Language of assessment: German or English creditable for bonus										
10-M=VGPM-161-	Giovanni Prodi Lecture Modern Topics (Master)													
mo1	ECTS	10	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses			V (4) + Ü (2) Module taught in: German and/or English										
	Method	d of ass	essment	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate)  Assessment offered: In the semester in which the course is offered and in the subsequent semester  Language of assessment: German or English  creditable for bonus										
10-M=VG-	Giovan	ni Prodi	Lecture :	Select	ed Topics (Master)									
PS-161-mo1	ECTS	10	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	S		V (4) + Ü (2) Module taught in: German and/or English										
	Method of assessment			a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German or English creditable for bonus										

10-M=VI-	Inverse F	Inverse Problems												
PR-161-m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate						
	Courses	,		V (3) + Ü (1) Module taught in: German and/or English										
	Method	of assessment	minu Asses Langi	a) written examination (approx. 60 to 90 minutes, usually chosen) or b) oral examination of one candidate each (approx. 15 minutes) or c) oral examination in groups (groups of 2, approx. 10 minutes per candidate) Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German or English creditable for bonus										
10-M=VK-	Complex	Geometry												
GE-161-mo1	ECTS 1	o Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate						
	Courses			V (4) + Ü (2) Module taught in: German and/or English										
	Method o	of assessment	minu Asses Lange	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German or English creditable for bonus										
10-M=VMB-	Mathematical Imaging													
V-161-m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate						
	Courses			V (3) + Ü (1) Module taught in: German and/or English										
	Method	of assessment	a) written examination (approx. 60 to 90 minutes, usually chosen) or b) oral examination of one candidate each (approminutes) or c) oral examination in groups (groups of 2, approx. 10 minutes per candidate) Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German or English creditable for bonus											
10-M=V-	Mathema	atical Continu	ım Med	hanics										
KOM-161-mo1	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate						
	Courses		Modu	V (3) + Ü (1) Module taught in: German and/or English										
	Method	of assessment	minu Asses Lange	a) written examination (approx. 60 to 90 minutes, usually chosen) or b) oral examination of one candidate each (approx. 15 minutes) or c) oral examination in groups (groups of 2, approx. 10 minutes per candidate) Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German or English creditable for bonus										

10-M=VMT-	Modu	ule Theory	/			,						
H-161-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Cours	ses			V (3) + Ü (1) Module taught in: German and/or English							
	Meth	od of ass	essment	minut Asses Langu	a) written examination (approx. 60 to 90 minutes, usually chosen) or b) oral examination of one candidate each (approx. 15 minutes) or c) oral examination in groups (groups of 2, approx. 10 minutes per candidate)  Assessment offered: In the semester in which the course is offered and in the subsequent semester  Language of assessment: German or English creditable for bonus							
10-M=V-	Non-	linear Ana	alysis									
NAN-161-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Cours	ses			+ Ü (1) le taught in: Germar	n and/or English						
	Meth	od of ass	essment	minut Asses Langu	tes) or c) oral examin	nation in groups (grou e semester in which	ups of 2, approx. 10 mi		one candidate each (approx. 15			
10-M=VOST-161-	Optimal Control											
mo1	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			V (3) + Ü (1) Module taught in: German and/or English								
	Meth	od of ass	essment	a) written examination (approx. 60 to 90 minutes, usually chosen) or b) oral examination of one candidate each (approximation) or c) oral examination in groups (groups of 2, approx. 10 minutes per candidate) Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German or English creditable for bonus								
10-M=VPD-	Parti	al Differe	ntial Equa	tions o	of Mathematical Phy	sics		,				
P-161-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Cours	ses		V (4) + Ü (2) Module taught in: German and/or English								
	Meth	od of ass	essment	minut Asses Langu	tes) or c) oral examinates; or c) oral examinates; ln th	on (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 xamination in groups (groups of 2, 15 minutes per candidate) : In the semester in which the course is offered and in the subsequent semester ment: German or English						

Pseudo Riemannian and Riemannian Geometry											
ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
Courses						•					
Method of ass	essment						one candidate each (approx. 20				
		Asses	sment offered: In the	e semester in which	the course is offered and	d in the subsequent se	emester				
				German or English							
Naturalis d Co	-4	credit	reditable for bonus								
	1		L competer	Mothod of avodina	numarical arada	Madullaval	avaduata				
	Duratio			Method of grading	numerical grade	Modul level	graduate				
Courses				and/or English							
Method of ass	essment	a) wri	tten examination (ap	prox. 60 to 90 minu	tes, usually chosen) or b	) oral examination of	one candidate each (approx. 15				
		minut	es) or c) oral examin	ation in groups (groups	ups of 2, approx. 10 mini	utes per candidate)					
Research in Groups - Non-linear Analysis											
ECTS 10	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
Courses				.,							
AA - 41 1 - 6											
Method of ass	essment	Assessment offered: In the semester in which the course is offered and in the subsequent semester									
		Language of assessment: German or English									
Research in G	roups - Op	erator Algebras									
ECTS 10	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
Courses		V (2) + S (2)									
Mathadafas	accmont.										
Method of ass	essment										
Giovanni Prod	i Seminar	(Mast	er)								
ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate				
Courses		S (2)									
Mathadafas											
wiethod of ass	essinent										
		Language of assessment: German or English									
	Research in G ECTS 10  Courses  Method of ass  Giovanni Prodes  Giovanni Prodes  Courses  Courses	Research in Groups - Note Tourses  Method of assessment  Networked Systems  ECTS 5 Duration  Courses  Method of assessment  Research in Groups - Note Tourses  Method of assessment  Research in Groups - Ope Tourses  Method of assessment  Research in Groups - Ope Tourses  Method of assessment  Research in Groups - Ope Tourses  Method of assessment  Giovanni Prodi Seminar  ECTS 5 Duration	ECTS 10 Duration  Courses V (4) - Modu  Method of assessment a) wriminut Assess ECTS 5 Duration  Courses V (3) - Modu  Method of assessment a) wriminut Assess Langu credit  Research in Groups - Non-lines ECTS 10 Duration  Courses V (2) - Modu  Method of assessment talk (6) Assess Langu Credit  Research in Groups - Operator ECTS 10 Duration  Courses V (2) - Modu  Method of assessment talk (6) Assess Langu  Giovanni Prodi Seminar (Maste ECTS 5 Duration  Courses S (2) Modu  Method of assessment talk (6) Assess Langu  Giovanni Prodi Seminar (Maste ECTS 5 Duration  Courses S (2) Modu  Method of assessment talk (6) Assess Langu  Giovanni Prodi Seminar (Maste ECTS 15 Duration  Courses S (2) Modu  Method of assessment talk (6) Assess	ECTS 10 Duration 1 semester  Courses	Courses	Courses	Courses				

10-M=SID-	Interdi	sciplina	ry Semin	ar			,					
C-161-m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		S (2) Modu	6 (2) Module taught in: German and/or English							
	Method	d of ass	essment	Asses	alk (60 to 120 minutes) ssessment offered: In the semester in which the course is offered and in the subsequent semester anguage of assessment: German or English							
10-M=SAL-	Semina	Seminar in Algebra										
G-161-mo1	ECTS	5	Duratio	n	1 semester	Method of grading   numerical grade	Modul level	graduate				
	Course	S		S (2) Modu	ıle taught in: Geri	nan and/or English						
	Method	d of ass	essment	Asses	anguage of assessment: German or English							
10-M=SAD-	Semina	ar in Ap	plied Diffe	erentia	l Geometry		'					
G-161-m01	ECTS	5	Duratio	n	1 semester	Method of grading   numerical grade	Modul level	graduate				
	Courses			S (2) Modu	ıle taught in: Geri	nan and/or English						
	Method	d of ass	essment	Asse	talk (60 to 120 minutes) Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German or English							
10-M=SD-	Seminar in Dynamical Systems and Control											
SC-161-m01	ECTS	5	Duratio	n .	1 semester	Method of grading   numerical grade	Modul level	graduate				
	Courses			S (2) Module taught in: German and/or English								
	Method	d of ass	essment	talk (60 to 120 minutes) Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German or English								
10-M=S-	Semina	ar in Fin	ancial an	d Insu	rance Mathemati	CS						
FIM-161-m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		S (2) Module taught in: German and/or English								
	Method of assessment			Asses	60 to 120 minutes) ssment offered: In the semester in which the course is offered and in the subsequent semester uage of assessment: German or English							

10-M=S-	Seminar in	Complex An	alysis				,					
COA-161-mo1	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	·	S (2) Modu	S (2) Module taught in: German and/or English								
	Method of a	assessment	Asses	talk (60 to 120 minutes) Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German or English								
10-M=S- GTO-161-m01	Seminar in Geometry and Topology											
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		S (2) Modu	lle taught in: Germa	n and/or English							
	Method of a	assessment	Asses	60 to 120 minutes) ssment offered: In thugge of assessment:		the course is offered a	and in the subsequent so	emester				
10-M=SM-	Seminar Ma	athematics i	n the S	he Sciences								
SC-161-m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		S (2) Modu	le taught in: Germa	n and/or English							
	Method of a	assessment	Asses	60 to 120 minutes) ssment offered: In th uage of assessment:		the course is offered a	and in the subsequent so	emester				
10-M=SN-	Seminar in Non-linear Analysis											
LA-161-m01	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		S (2) Module taught in: German and/or English									
	Method of a	assessment	talk (60 to 120 minutes) Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German or English									
10-M=SN-	Seminar in	Numerical N	lather	atics and Applied A	nalysis							
MA-161-mo1	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		S (2) Modu	S (2) Module taught in: German and/or English								
	Method of a	assessment	talk (	k (60 to 120 minutes) sessment offered: In the semester in which the course is offered and in the subsequent semester nguage of assessment: German or English								

10-M=SOP-	Semina	r in Op	timizatio	n				,				
T-161-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5		S (2) Modu	S (2) Module taught in: German and/or English							
	Method	of ass	essment	Asses	talk (60 to 120 minutes) Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German or English							
10-M=S-	Semina	Seminar in Statistics										
STA-161-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5		S (2) Modu	ıle taught in: Germ	an and/or English						
	Method	of ass	essment	Asses			the course is offered ar	nd in the subsequent se	emester			
10-M=VA-	Algebra	ic Geo	metry					,				
GE-192-m01	ECTS	10	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5			+ Ü (2) ıle taught in: Germ	an and/or English						
	Method	of ass	essment	minu Langu Asses	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate)  Language of assessment: German and/or English  Assessment offered: Only when announced in the semester in which the courses are offered and in the subsequent semester creditable for bonus							
10-M=VAZ-	Algorith	Algorithmic Number Theory										
T-192-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	6	•	V (4) + Ü (2) Module taught in: German and/or English								
	Method	of ass	essment	minu Langu Asses	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German and/or English Assessment offered: Only when announced in the semester in which the courses are offered and in the subsequent semester creditable for bonus							
10-M=GAD-	Researc	ch in G	roups - Ap	plied	Differential Geome	etry						
G-192-m01	ECTS	ECTS 10 Duratio			1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5		V (2) + S (2) Module taught in: German and/or English								
	Method	of ass	essment	talk (approx. 60 to 120 minutes) Language of assessment: German or English Assessment offered: Only when announced in the semester in which the courses are offered and in the subsequent semester								

10-M=GLIE-192-	Resear	ch in Gr	oups - Lie	Theor	y						
mo1	ECTS	10	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V (2) + S (2) Module taught in: German and/or English							
	Method	d of ass	essment	talk (approx. 60 to 120 minutes) Language of assessment: German or English Assessment offered: Only when announced in the semester in which the courses are offered and in the subsequent semester							
10-M=G-	Resear	ch in Gr	oups - Ma	athema	atical Physics						
MAP-192-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V (2) - Modu	+ S (2) le taught in: Germar	n and/or English					
	Method of assessment			Langu	talk (approx. 60 to 120 minutes) Language of assessment: German or English Assessment offered: Only when announced in the semester in which the courses are offered and in the subsequent semester						
10-M=V-	Selected Topics in Numerical and Applied Mathematics										
NAM-192-m01	ECTS 10 Duratio		1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			V (4) + Ü (2) Module taught in: German and/or English							
	Method of assessment			a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate)  Language of assessment: German and/or English  Assessment offered: Only when announced in the semester in which the courses are offered and in the subsequent seme creditable for bonus							
10-M=V-	Compu	ter Alge	ebra								
CAL-192-m01	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			V (4) + Ü (2) Module taught in: German and/or English							
	Method of assessment			a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate)  Language of assessment: German and/or English  Assessment offered: Only when announced in the semester in which the courses are offered and in the subsequent semester creditable for bonus							

10-M=VGFT-192-	Geometric Complex Analysis											
mo1	ECTS	10	Duration	1	1 semester	Method of grading numerical grad	le Mo	odul level	graduate			
	Courses	S			+ Ü (2) ıle taught in: Gerr	nan and/or English						
	Method	l of asso	essment	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German and/or English Assessment offered: Only when announced in the semester in which the courses are offered and in the subsequent semester creditable for bonus								
10-M=V-	Cryptog	graphy/	Coding T	heory			,					
KRY-192-m01	ECTS	10	Duration	า	1 semester	Method of grading numerical grad	le Mo	odul level	graduate			
	Courses	S			+ Ü (2) ıle taught in: Gerr	nan and/or English						
	Method of assessment			a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate)  Language of assessment: German and/or English  Assessment offered: Only when announced in the semester in which the courses are offered and in the subsequent semester creditable for bonus								
10-M=SA-	Seminar Applied Mathematics											
MA-192-m01	ECTS	5	Duration	า	1 semester	Method of grading numerical grad	le Mo	odul level	graduate			
	Courses			S (2) Module taught in: German and/or English								
	Method	Method of assessment			talk (approx. 60 to 120 minutes) Language of assessment: German or English Assessment offered: Only when announced in the semester in which the courses are offered and in the subsequent semester							
Focus Subject Com	puter Ph	ysics (d	or 60 EC	TS cre	dits)							
11-EXE5-161-m01	Current	Topics	in Experi	menta	l Physics							
	ECTS	5	Duration	า	1 semester	Method of grading numerical grad	le Mo	odul level	graduate			
	Courses	S		V (2)	+ R (2)							
				a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes).  If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.  Language of assessment: German and/or English								
	other p	rerequi	sites	Appro	oval from examina	ation committee required.						

11-EXE6-161-m01	Current	Topics	in Experi	menta	l Physics							
	ECTS	6	Duration	1	1 semester	Method of grading   numerical grade	Modul level	graduate				
	Course	S		V (3)	V (3) + R (1)							
	Method of discissinent			oral e prese If a w form the le	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English							
	other p	rerequi	sites	Appro	oval from examinatio	on committee required.						
11-EXE7-161-mo1	Current	Topics	in Experi	menta	l Physics							
	ECTS 7 Duratio			1	1 semester	Method of grading   numerical grade	Modul level	graduate				
	Course			1,57	+ R (1)	pprox. 90 to 120 minutes) or b) oral examination (						
				prese If a w form the le	oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English							
	other prerequisites			Approval from examination committee required.								
11-EXE8-161-mo1					l Physics							
	ECTS	8	Duration		1 semester	Method of grading   numerical grade	Modul level	graduate				
	Course				+ R (2)							
	Method of assessment			a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes).  If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.  Language of assessment: German and/or English								
	other p	rerequi	sites	Appro	oval from examination	on committee required.						

11-EXE6A-161-m01	Current	Topics	in Experi	menta	l Physics	-				
	ECTS	6	Duration	า	1 semester	Method of grading   numerical grade	Modul level	graduate		
	Course	S		V (3)	+ R (1)	•				
	Method	l of ass	essment	oral e prese If a w form the le	examination in group entation/talk (approxitten examination word of an oral examination secturer must inform sectu	pprox. 90 to 120 minutes) or b) oral examination os (groups of 2, approx. 30 minutes per candidate x. 30 minutes). was chosen as method of assessment, this may bon of one candidate each or an oral examination students about this by four weeks prior to the original candor English	e) or d) project repose e changed and ass in groups. If the m	ort (approx. 8 to 10 pages) or e) sessment may instead take the ethod of assessment is changed,		
	other p	rerequi	sites	Appro	oval from examination	on committee required.				
11-EXP6-161-m01	Current	Topics	in Physil	<b>(</b>						
	ECTS 6 Duratio			n	1 semester	Method of grading   numerical grade	Modul level	graduate		
	Course				+ R (1)	pprox. 90 to 120 minutes) or b) oral examination				
				oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes).  If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.  Language of assessment: German and/or English						
	other prerequisites			Approval from examination committee required.						
11-EXP6A-161-m01	Current	Topics	in Physil	(						
	ECTS	6	Duration		1 semester	Method of grading   numerical grade	Modul level	graduate		
	Course				+ R (1)					
	Method of assessment			a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes).  If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English						
	other prerequisites			Appro	oval from examination	on committee required.				

11-EXT5-161-m01	Current	Topics	of Theore	etical I	Physics						
	ECTS	5	Duratio	n n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		V (2)	V(2) + R(2)						
	Method of assessment			oral e prese If a w form the le	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English						
	other p	rerequi	sites	Appro	oval from examinatio	on committee required.					
11-EXT6-161-m01	Current	Topics	of Theor	etical	Physics						
	ECTS 6 Duratio			1	1 semester	Method of grading   numerical grade	Modul level	graduate			
	Course			1,57	+ R (1)	pprox. 90 to 120 minutes) or b) oral examination (					
				prese If a w form the le	oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English						
	other prerequisites			Approval from examination committee required.							
11-EXT7-161-m01		Topics	of Theor	etical	Physics						
	ECTS	7	Duratio		1 semester	Method of grading   numerical grade	Modul level	graduate			
	Course				+ R (1)						
	Method of assessment			a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes).  If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English							
	other p	rerequi	sites	Appro	oval from examination	on committee required.					

11-EXT8-161-m01	Current	Topics	of Theore	etical	Physics							
	ECTS	8	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (4)	+ R (2)							
				oral e prese If a w form the le Lang	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) oresentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.  Language of assessment: German and/or English							
	other p				oval from examinatio	on committee require	d.					
11-EXT6A-161-m01	Current	t Topics	of Theore	etical	Physics							
	ECTS	6	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (3)	+ R (1)							
				prese If a w form the le Lang	oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages oresentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is claded the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English							
	other p			Approval from examination committee required.								
11-ASM-161-mo1			servation		ronomy							
	ECTS	6	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	Courses			V (3) + R (1) Module taught in: German or English							
	Method	l of ass		written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German and/or English								

11-ATTP-161-m01	Selecte	ed Topics of	Theo	retical	Elementary Particle	e Physics		1				
	ECTS	6 Du	ıration	1	1 semester	Method of grading   numerical gra	ade	Modul level	graduate			
	Course	S			+ R (1) Ile taught in: Germa	n or English						
				amina on/ta If a wi form of the le Asses Langu	ritten examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral exmination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentatin/talk (approx. 30 minutes).  a written examination was chosen as method of assessment, this may be changed and assessment may instead take the orm of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, he lecturer must inform students about this by four weeks prior to the original examination date at the latest. Seessment offered: In the semester in which the course is offered and in the subsequent semester anguage of assessment: German and/or English							
11-BSV-161-m01		and Signal			in Physics							
	ECTS 6 Duratio				1 semester	Method of grading   numerical gra	ade	Modul level	graduate			
	Course	S			' (2) + Ü (2) Module taught in: German or English							
	Method of assessment			amina on/ta If a wiform of the le Asses	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral amination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or present on/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is character must inform students about this by four weeks prior to the original examination date at the latest. Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German and/or English							
11-BMT-161-m01	Biophy	sical Meas	ıreme	nt Tec	hnology in Medical	Science						
	ECTS	6 Du	ıration	1	1 semester	Method of grading   numerical gra	ade	Modul level	graduate			
	Course	S		V (3) + R (1) Module taught in: German or English								
	Method	d of assessi		a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes).  If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.  Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German and/or English								

11-BWW-161-m01	Bosoni	sation	and Intera	ctions	in One Dimension		,					
	ECTS	6	Duratio	1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S	·	V (3) - Modu	+ R (1) lle taught in: Germar	n or English						
	Method	d of ass	essment	amina on/ta If a wi form of the le Asses	ation in groups (grou lk (approx. 30 minut ritten examination w of an oral examinatio cturer must inform s ssment offered: In th	rox. 90 to 120 minutes) or oral examination of 2, approx. 30 minutes per candidate) tes).  It was chosen as method of assessment, this means on of one candidate each or an oral examinated each or an oral examination or an oral	or project report (appronay be changed and assation in groups. If the mage original examination of	sessment may instead take the ethod of assessment is changed, date at the latest.				
11-CMS-161-m01			l Material	s Scie	nce (DFT)							
	ECTS 8 Duration				1 semester	Method of grading   numerical grade	Modul level	graduate				
	Course	S			(4) + R (2) lodule taught in: German or English							
	Method of assessment			amina on/ta If a wiform of the le Asses	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is change the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German and/or English							
11-ASP-161-m01	Introdu	ction t	o Space P	hysics								
	ECTS	6	Duration		1 semester	Method of grading   numerical grade	Modul level	graduate				
	Course	S		V (3) + R (1) Module taught in: German or English								
	Method of assessment			amina on/ta If a wiform of the le Asses	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German and/or English							

11-FKS-161-m01	Solid S	tate Sp	ectrocopy	,			,						
	ECTS	6	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	S	•		+ R (1)			•					
					Module taught in: German or English								
	Method	d of ass	essment	amin on/ta	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral exmination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes).  To written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.  Assessment offered: In the semester in which the course is offered and in the subsequent semester anguage of assessment: German and/or English								
				form the le Asses									
11-FPA-161-m01	Visiting	g Resea	rch										
	ECTS	10	Duratio	,		Method of grading   numerical grade	Modul level	graduate					
	Course	S		R (o)									
	Method	d of ass	essment		roject report (10 to 20 pages) anguage of assessment: German and/or English								
	other p	rerequi	sites	Appro	Approval from examination committee required.								
11-CSAM-161-mo1													
	ECTS 6 Duration			n	1 semester	Method of grading   numerical grade	Modul level	graduate					
	Courses			V (3)	+ R (1)		·						
	Method of assessment			oral e prese If a w form the le	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 mi oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may insteform of an oral examination of one candidate each or an oral examination in groups. If the method of assessme the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English								
	other p	rerequi	sites	Appro	oval from examinat	ion committee required.							
11-CSFM-161-m01	Advanc	ed Topi	ics in Soli	d Stat	e Physics								
	ECTS	6	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	S	•	V (3)	+ R (1)	·	·	•					
	Method of assessment			oral e prese If a w form the le Lange	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English								
	other p	rerequi	sites	Appro	oval from examinat	ion committee required.		Approval from examination committee required.					

11-L-GKP-152-m01	Genera	l Conce	pts of Phy	ysics								
	ECTS	6	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		$V(2) + \ddot{U}(1) + S(2)$								
					Module taught in: Ü: German or English							
	Method of assessment				) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) anguage of assessment: German and/or English							
	Referre	d to in I	-PO I	§ 77 I	§ 77   Nr. 1 b)							
11-APL-161-m01	High Er	ergy A	strophysi	cs								
	ECTS	6	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			V (3) - Modu	+ R (1) le taught in: Germa	n or English						
			essinent	amina on/ta If a wi form of the le Asses	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German and/or English							
11-AKM-161-mo1	Cosmo		1									
		6	Duratio	-	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			V (3) + R (1) Module taught in: German or English								
	Method of assessment			written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes).  If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.  Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German and/or English								

11-BSM-161-m01	Models	s Beyon	d the Sta	ndard	Model of Elementa	ry Particle Physics		-				
	ECTS	6	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			V (3) + R (1) Module taught in: German or English							
	Method	d of ass	essment	writte amina on/ta If a w form the le	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes).  If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.  Assessment offered: In the semester in which the course is offered and in the subsequent semester  Language of assessment: German and/or English							
11-L-M3-152-m01	Moder	n Physi	cs 3 (Nucl		rticle and Astroph		<u> </u>		-			
	ECTS	6	Duration		2 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	Courses			V (3) + Ü (1) Module taught in: Ü: German or English							
	Method of assessment			written examination (approx. 90 to 120 minutes) Language of assessment: German and/or English								
	Referred to in LPO I			§ 77   Nr. 1 b)								
11-CRP-161-mo1	Renormalization Group and Critical Phenomena											
	ECTS	6	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (3) + R (1) Module taught in: German or English								
	Method	d of ass	essment	amina on/ta If a w form the le	ation in groups (gr lk (approx. 30 mir ritten examination of an oral examina octurer must inform ssment offered: In	oups of 2, approx. 30 intes). was chosen as metholition of one candidate in students about this b	minutes per candidate) or proje d of assessment, this may be c each or an oral examination in g by four weeks prior to the origina the course is offered and in the	ct report (appro hanged and ass groups. If the m al examination	sessment may instead take the ethod of assessment is changed, date at the latest.			

11-L-T1-161-m01	Theore	tical Ph	ysics 1 for	Pre Service Teac	hers		,					
	ECTS	7	Duration	ı 1 semeste	ſ	Method of grading numerical grade	Modul level	undergraduate				
	Course	S		V (4) + Ü (2) Module taught in: Ü: German or English								
	Method	d of ass		written examination (approx. 120 minutes) Language of assessment: German and/or English								
	other p	rerequi		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		this will be consi ASPO (general ac tained the qualifi those students the ster for an assess	dered a ademic cation nat mee sment c studen	t registers for the exercises or the seminar and ob a declaration of will to seek admission to assess a and examination regulations). If the module coo for admission to assessment, they will put the str et the respective prerequisites can successfully re or whose registration for an assessment was not p t takes an assessment to which he/she has not b	nent pursuant to Se ordinators subsequudent's registration egister for an asses out into effect will r	ection 20 Subsection 3 Sentence 4 ently find that the student has ob- n for assessment into effect. Only sment. Students who did not regi- not be admitted to the respective				
11-L-T2-161-m01	Theoretical Physics 2 for Pre Service Teachers - Exercises											
	ECTS 7 Duration			1 semeste	ſ	Method of grading   numerical grade	Modul level	undergraduate				
	Course	S		V (4) + Ü (2) Module taught in	: Ü: Ge	rman or English						
	Method	d of ass		oral examination of one candidate each (approx. 30 minutes) Assessment will have reference to the contents of modules 11-L-T1 and 11-L-T2. Language of assessment: German and/or English								
	other p	rerequi		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		this will be consi ASPO (general ac tained the qualifi those students the ster for an assess	dered a ademic cation nat mee sment c studen	t registers for the exercises or the seminar and ob a declaration of will to seek admission to assessn c and examination regulations). If the module coc for admission to assessment, they will put the str et the respective prerequisites can successfully re or whose registration for an assessment was not p t takes an assessment to which he/she has not b	nent pursuant to Se ordinators subsequudent's registration egister for an asses out into effect will r	ection 20 Subsection 3 Sentence 4 ently find that the student has ob- n for assessment into effect. Only sment. Students who did not regi- not be admitted to the respective				

11-NMA-161-m01	Compu	tational Astroph	ysics								
	ECTS	6 Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		+ R (1) ule taught in: Germar	n or English						
	Method	l of assessment	oral e prese If a w form the le	written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) ral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) resentation/talk (approx. 30 minutes).  a written examination was chosen as method of assessment, this may be changed and assessment may instead take the orm of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, ne lecturer must inform students about this by four weeks prior to the original examination date at the latest.  ssessment offered: In the semester in which the course is offered and in the subsequent semester anguage of assessment: German and/or English							
11-GGD-161-m01	Introdu	ction to Gauge/	Gravity	Duality							
	ECTS	8 Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (4) + R (2) Module taught in: German or English							
	Method	d of assessment	amin on/ta If a w form the le Asses	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presert on/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is chapter that the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German and/or English							
11-TPE-161-m01	Experin	nental Particle P	hysics								
	ECTS	6 Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S	V (3) + R (1) Module taught in: German or English								
	Method	l of assessment	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes).  If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.  Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German and/or English								

11-KFT-161-m01	Confor	mal Fiel	d Theory								
	ECTS	6	Duration	1	1 semester	Method of grading   numerical grade		Modul level	graduate		
	Course	S			+ R (1) ıle taught in: Germa	n or English		,			
				amin on/ta If a w form the le Asses	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral exmination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes).  The a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.  Seessment offered: In the semester in which the course is offered and in the subsequent semester anguage of assessment: German and/or English						
11-KFT2-161-m01	Confor	mal Fiel	d Theory	2							
	ECTS 6 Duratio			1	1 semester	Method of grading   numerical grade		Modul level	graduate		
	Courses				(3) + R (1) odule taught in: German or English						
	Method of assessment			amin on/ta If a w form the le Asses	ritten examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral mination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or present n/talk (approx. 30 minutes).  To a written examination was chosen as method of assessment, this may be changed and assessment may instead take form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed examination to the original examination date at the latest.  The sessment offered: In the semester in which the course is offered and in the subsequent semester anguage of assessment: German and/or English						
11-MAG-161-m01	Magne	tism									
	ECTS	6	Duration		1 semester	Method of grading numerical grade		Modul level	graduate		
	Course	S		V (3) + R (1) Module taught in: German or English							
	Method of assessment			written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes).  If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.  Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German and/or English							

11-MAS-161-m01	Multi-w	vavelen	gth Astro	nomy								
	ECTS	6	Duratio	n	1 semester	Method of grading numerical grade	?	Modul level	graduate			
	Course	S		V (3) - Modu	+ R (1) lle taught in: Germar	n or English						
	Method	d of ass	essment	amina on/ta If a wi form of the le Asses	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral exmination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes).  To a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, ne lecturer must inform students about this by four weeks prior to the original examination date at the latest.  In the semester in which the course is offered and in the subsequent semester anguage of assessment: German and/or English							
11-NOP-161-mo1	Nano-C	ptics										
	ECTS 6 Duration			1	1 semester	Method of grading numerical grade	<u> </u>	Modul level	graduate			
	Courses				(3) + R (1)  Module taught in: German or English							
	Method of assessment			oral e prese If a wi form of the le Asses	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or constantion in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or expresentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German and/or English							
11-HNS-161-mo1	Optical	Proper	ties of Se	micon	ductor Nanostructui	res						
	ECTS	6	Duration		1 semester	Method of grading   numerical grade	<u>.</u>	Modul level	graduate			
	Course	S		V (3) + R (1) Module taught in: German or English								
	Method of assessment			written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes).  If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.  Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German and/or English								

11-OHL-161-mo1	Organi	c Semiconductor	S	1						
	ECTS	6 Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		+ R (1) ule taught in: Germar	n or English	,				
	Method	d of assessment	oral oral oral oral oral oral oral oral	written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) ral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) resentation/talk (approx. 30 minutes).  a written examination was chosen as method of assessment, this may be changed and assessment may instead take the orm of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, ne lecturer must inform students about this by four weeks prior to the original examination date at the latest.  ssessment offered: In the semester in which the course is offered and in the subsequent semester anguage of assessment: German and/or English						
11-PKS-161-m01	Physics	s of Complex Sys	tems							
	ECTS	6 Duratio	n	1 semester	Method of grading   numerical grade	Modul level	graduate			
	Course	S		(2) + R (2) odule taught in: German or English						
	Method	d of assessment	amin on/ta If a w form the le	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral amination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or present on/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is chatche lecturer must inform students about this by four weeks prior to the original examination date at the latest. Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German and/or English						
11-PMM-161-mo1	Physics	s of Advanced Ma	aterial	s		,				
	ECTS	6 Duratio		1 semester	Method of grading   numerical grade	Modul level	graduate			
	Course	S	V (3) + R (1) Module taught in: German or English							
	Method	d of assessment	amin on/ta If a w form the le	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes).  If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.  Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German and/or English						

11-QFT2-161-m01	Quant	um Fiel	d Theory II					,				
	ECTS	8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es.			/ (4) + R (2) Module taught in: German or English							
	Metho	d of ass	sessment	amin on/ta If a w form the le Asse	ritten examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral exmination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentatin/talk (approx. 30 minutes). a written examination was chosen as method of assessment, this may be changed and assessment may instead take the rm of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed e lecturer must inform students about this by four weeks prior to the original examination date at the latest. Seessment offered: In the semester in which the course is offered and in the subsequent semester anguage of assessment: German and/or English							
11-QM2-161-m01	Quant	um Mec	hanics II									
	ECTS	8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	es.			/ (4) + R (2) Module taught in: German or English							
				amin on/ta If a w form the le Asse	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) amination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or pon/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German and/or English							
11-RTT-161-m01	Theory	of Rela	ativity									
	ECTS	6	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es.		V (3) + R (1) Module taught in: German or English								
	Metho	d of ass	sessment	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German and/or English								

11-RMFT-161-m01	Renorm	alization	n Group	Metho	ds in Field Theory	1		,			
	ECTS	8	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	;		V (4) + R (2) Module taught in: German or English							
	Method	of asses	ssment	oral e prese If a wi form of the le Asses	written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) oresentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the orm of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Assessment offered: In the semester in which the course is offered and in the subsequent semester anguage of assessment: German and/or English						
11-SPI-161-m01	Spintro	nics									
	ECTS	6	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	<b>;</b>			/ (3) + R (1) Module taught in: German or English						
	Method of assessment			written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx amination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to on/talk (approx. 30 minutes).  If a written examination was chosen as method of assessment, this may be changed and assessment of an oral examination of one candidate each or an oral examination in groups. If the method the lecturer must inform students about this by four weeks prior to the original examination date at Assessment offered: In the semester in which the course is offered and in the subsequent semeste Language of assessment: German and/or English					sessment may instead take the lethod of assessment is changed, date at the latest.		
11-TEP-161-m01	Theoret	ical Elen	nentary	Particl	e Physics						
	ECTS	8	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	5		V (4) + R (2) Module taught in: German or English							
	Method	of asses	ssment	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German and/or English							

11-TFK-161-m01	Theore	tical So	olid State	Physic	CS			,				
	ECTS	8	Duratio	n	1 semester Method of grading numerical grade Modul level graduate							
	Course	S	,		+ R (2) ule taught in: Ger	man or English		·				
				amin on/ta If a w form the le Asse Lang	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes).  If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.  Assessment offered: In the semester in which the course is offered and in the subsequent semester  Language of assessment: German and/or English							
11-TFK2-161-m01			olid State	<u> </u>	CS 2							
	ECTS	8	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			V (4) + R (2) Module taught in: German or English							
				amin on/ta If a w form the le Asse Lang	ation in groups (galk (approx. 30 m vritten examination of an oral examin ecturer must infor ssment offered: I uage of assessm	(approx. 30 minutes) or oral ex- ix. 8 to 10 pages) or presentati- sessment may instead take the ethod of assessment is changed, date at the latest.						
11-MRI-171-m01	Advanc	ed Ma	gnetic Res	onand	e Imaging							
	ECTS	6	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (3) + R (1) Module taught in: English								
	Method	d of ass	sessment	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or expresentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German and/or English								

11-EPP-161-m01	Introdu	iction to	Plasma F	Physic	 S	-					
	ECTS	6	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		V (2) + R (2) Module taught in: German or English							
	Method	l of asse		oral e prese If a w form of the le Asses	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes).  If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.  Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German and/or English						
11-SSC-172-m01	Surface	e Science	9								
	ECTS	6	Duration	ו	1 semester	Method of grading   numerical grade	Modul level	graduate			
	Courses				/ (3) + R (1) Module taught in: Englisch						
	Method of assessment			oral e prese If a w form the le Asses	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 pral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may inform of an oral examination of one candidate each or an oral examination in groups. If the method of assessment electurer must inform students about this by four weeks prior to the original examination date at the latest Assessment offered: In the semester in which the course is offered and in the subsequent semester anguage of assessment: German and/or English						
11-STRG1-171-m01	String	Theory 1									
	ECTS	8	Duration		1 semester	Method of grading   numerical grade	Modul level	graduate			
	Courses			V (4) + R (2) Module taught in: German or English							
	Method	l of asse		oral e prese If a w form the le Asses	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes).  If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.  Assessment offered: In the semester in which the course is offered and in the subsequent semester  Language of assessment: German and/or English						

11-STRG2-171-m01	String	Theory 2								
	ECTS	6 Durat	on	1 semester	Method of grading nu	umerical grade	Modul level	graduate		
	Course	S		V (3) + R (1) Module taught in: German or English						
	Method	d of assessmer	oral oral oral oral oral oral oral oral	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes).  If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.  Assessment offered: In the semester in which the course is offered and in the subsequent semester  Language of assessment: German and/or English						
11-AST-161-m01	Theore	tical Astrophys	ics							
	ECTS	6 Durat	on	1 semester	Method of grading no	umerical grade	Modul level	graduate		
	Course	S		V (2) + R (2)  Module taught in: German or English						
	Method	d of assessmer	amin on/ta If a w form the la Asse	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) amination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages on/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may ir form of an oral examination of one candidate each or an oral examination in groups. If the method of assess the lecturer must inform students about this by four weeks prior to the original examination date at the lates Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German and/or English						
11-AKTF-201-m01	Selecte	ed Topics of Th	oretica	l Solid State Physics	;					
	ECTS	6 Durat	on	1 semester	Method of grading nu	umerical grade	Modul level	graduate		
	Course	S		V (3) + R (1) Module taught in: German or English						
	Method	d of assessmer	nation (app If a was form the leaning	written examination (approx. 90-120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes).  If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.  Language of assessment: German and/or English  Assessment offered: In the semester in which the course is offered and in the subsequent semester						

11-FFK-201-m01	Field T	heory ir	Solid Sta	ate Phy	ysics							
	ECTS	8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			V (4) + R (2)							
	Matha	-l -£			Module taught in: German or English written examination (approx. 90-120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral exami-							
	Method	1 01 d55	essment	natio (appr If a w form the le	nation in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes).  If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.  Language of assessment: German and/or English  Assessment offered: In the semester in which the course is offered and in the subsequent semester							
11-FK2-201-m01	Solid S	tate Ph	ysics 2					,				
	ECTS	8	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			(4) + R (2) lodule taught in: German or English							
	Method of assessment			natio (appr If a w form the le	nation in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may ir form of an oral examination of one candidate each or an oral examination in groups. If the method of assess the lecturer must inform students about this by four weeks prior to the original examination date at the lates Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester							
		rerequi		Approval from examination committee required.								
11-QIC-201-m01					Computing and (	Quantum Information						
		6	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			V (3) + R (1) Module taught in: German or English							
	Method	d of ass	essment	natio (appr If a w form the le Langu	written examination (approx. 90-120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/tall (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester							

11-GRTM-201-m01	Group	Theory					"				
	ECTS	6	Duration	1	1 semester	Method of grading numerical grade		Modul level	graduate		
	Course	S			V (3) + R (1) Module taught in: German or English						
	Method	d of ass	essment	nation (approfessional If a wiferm of the le Langu	n in groups (group) ox. 30 minutes). ritten examination of an oral examina cturer must inform uage of assessmen	prox. 90-120 minutes) or oral examination s of 2, approx. 30 minutes per candidate) of was chosen as method of assessment, thi tion of one candidate each or an oral exames a students about this by four weeks prior to the cerman and/or English the semester in which the course is offered	or project rep is may be cha nination in gr o the original	oort (approx. 8 anged and assoups. If the me examination	to 10 pages) or presentation/talk sessment may instead take the ethod of assessment is changed, date at the latest.		
		rerequi		Appro	oval from examinat	ion committee required.					
11-HPH-201-m01			r Physics								
	ECTS	6	Duration		1 semester	Method of grading   numerical grade		Modul level	graduate		
	Course			Modu	V (3) + R (1)  Module taught in: German or English						
	Method	d of ass	essment	nation (approfessional) If a wiferm of the le Langu	written examination (approx. 90-120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/ta (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is change the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester						
11-PTS-201-m01	Phenoi	menolog	gy and Th	eory of	f Superconductivit	у	"	-			
	ECTS	6	Duration	1	1 semester	Method of grading numerical grade		Modul level	graduate		
	Course	S		V (3) + R (1) Module taught in: German or English							
	Method	d of ass	essment	written examination (approx. 90-120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes).  If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English  Assessment offered: In the semester in which the course is offered and in the subsequent semester							

11-QFT1-201-m01	Quantı	ım Field	Theory I									
	ECTS	8	Duration	1	1 semester	Method of grading	numerical grade		Modul level	graduate		
	Course	!S			V(4) + R(2)							
					le taught in: Germ							
	Method	d of asso		nation (appro If a win form of the le Langu	written examination (approx. 90-120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester							
	other p	rerequi	sites	Appro	val from examinat	tion committee requir	ed.					
11-QTR-201-m01	Quantı	ım Tran:	sport									
	ECTS	6	Duration		1 semester	Method of grading	numerical grade		Modul level	graduate		
	Course	!S			/ (3) + R (1) Module taught in: German or English							
	method	a or asso		written examination (approx. 90-120 minutes) or oral examination of one candidate each nation in groups (groups of 2, approx. 30 minutes per candidate) or project report (appro (approx. 30 minutes).  If a written examination was chosen as method of assessment, this may be changed and form of an oral examination of one candidate each or an oral examination in groups. If the lecturer must inform students about this by four weeks prior to the original examination Language of assessment: German and/or English  Assessment offered: In the semester in which the course is offered and in the subsequer					port (approx. 8 nanged and ass roups. If the m I examination	to 10 pages) or presentation/talk sessment may instead take the ethod of assessment is changed, date at the latest.		
11-TPSM-201-m01		e Physic	s (Standa	rd Mo	del)							
	ECTS	6	Duration		1 semester	Method of grading	numerical grade		Modul level	graduate		
	Course	!S		V (3) + R (1) Module taught in: German or English								
	Method	d of asso		written examination (approx. 90-120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes).  If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English  Assessment offered: In the semester in which the course is offered and in the subsequent semester								
	other p	rerequi	sites	Appro	val from examinat	tion committee requir	ed.					

11-TEFK-201-m01	Topologica	al Effects in S	olid Sta	te Physics			,				
	ECTS 8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	,		V (4) + R (1) Module taught in: German or English							
	Method of	assessment	nation (appro If a wri form of the lec	written examination (approx. 90-120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes).  If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.  Language of assessment: German and/or English  Assessment offered: In the semester in which the course is offered and in the subsequent semester							
11-SLQ-232-m01	Black Hole	es									
	ECTS 6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			(3) + R (1) odule taught in: German or English							
			b) oral c) oral d) proj e) pres If a wri form of the lec Langua Assess	examination of or examination in groet report (approximation) tentation/talk (approximation) ten examination of an oral examination of assessment offered: In the examination of the exa	. 8 to 10 pages) or prox. 30 minutes). was chosen as metho ion of one candidate students about this be: German and/or Eng	prox. 30 minutes) or prox. 30 minutes per of the prox. 30 minutes per of the prox. 30 minutes pe	may be changed and ass				
Module Area B: Foo				CTS credits)							
MINT-B1-162-m01		Subject Dida			1	· · · ·					
	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		$V(2) + \ddot{U}(1)$ Module taught in: German and/or English Course type: alternatively S (2) or P (2) instead of $\ddot{U}(1)$								
	Method of	assessment	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (20 to 40 minutes) or c) talk (30 to 60 minutes) or d) practical assignment including report (approx. 10 to 20 pages) and talk (approx. 15 minutes) or e) term paper (approx. 15 to 25 pages, usually chosen) Language of assessment: German and/or English creditable for bonus								

MINT-B2-162-m01	Advanc	Advanced Subject Didactics 2												
	ECTS	5	Duration		1 semester	Method of grading   numerical grade	Modul level	graduate						
	Course	S		Modu	V (2) + Ü (1)  Module taught in: German and/or English  Course type: alternatively S (2) or P (2) instead of Ü (1)  a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (20 to 40 minutes) or c) talk  (30 to 60 minutes) or d) practical assignment including report (approx. 10 to 20 pages) and talk (approx. 15 minutes) or e)  term paper (approx. 15 to 25 pages, usually chosen)  Language of assessment: German and/or English  creditable for bonus									
				(30 to term p Langu credit										
Module Area C: Into				y resea	arch (10 ECTS credit	is)								
MINT-C1-162-m01	Resear		<u> </u>		T	T	1							
		5	Duration		1 semester	Method of grading (not) successfully completed	Modul level	graduate						
	Course	S		Mòdu	V (2) + Ü (1) Module taught in: German and/or English Course type: alternatively S (2) or P (2) instead of Ü (1)									
	Method	d of ass	essment	(30 to term p Langu	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (20 to 40 minutes) or 6 (30 to 60 minutes) or d) practical assignment including report (approx. 10 to 20 pages) and talk (approx. 15 minutes) or cerm paper (approx. 15 to 25 pages, usually chosen) Language of assessment: German and/or English Creditable for bonus									
MINT-C2-162-m01	Scienti	fic Inter	nship											
	ECTS	5	Duration	1	1 semester	Method of grading (not) successfully completed	Modul level	graduate						
	Courses			Modu	V (2) + Ü (1)  Module taught in: German and/or English  Course type: alternatively S (2) or P (2) instead of Ü (1)									
	Method	d of ass	essment	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (20 to 40 minutes) or c) talk (30 to 60 minutes) or d) practical assignment including report (approx. 10 to 20 pages) and talk (approx. 15 minutes) or e) term paper (approx. 15 to 25 pages, usually chosen) Language of assessment: German and/or English creditable for bonus										

Module Area D: Sul	bject spe	ecific ke	y skills (1	o ECTS	credits)										
MINT-D1-162-m01	Key Co	Key Competences for Teaching Professions 1													
	ECTS	5	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate						
	Course	S		Modu	V (2) + Ü (1) Module taught in: German and/or English Course type: alternatively S (2) or P (2) instead of Ü (1)										
	Method of assessment			(30 to term p Langu	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (20 to 40 minutes) or c) talk (30 to 60 minutes) or d) practical assignment including report (approx. 10 to 20 pages) and talk (approx. 15 minutes) or e) term paper (approx. 15 to 25 pages, usually chosen)  Language of assessment: German and/or English creditable for bonus										
MINT-D2-162-m01	Key Co	mpeten	ces for Te	aching	Professions 2										
	ECTS 5 Duratio			1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate						
	Course	S		$V(2) + \ddot{U}(1)$ Module taught in: German and/or English Course type: alternatively $S(2)$ or $P(2)$ instead of $\ddot{U}(1)$											
	Method of assessment			(30 to term p Langu	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (20 to 40 minutes) (30 to 60 minutes) or d) practical assignment including report (approx. 10 to 20 pages) and talk (approx. 15 minutes term paper (approx. 15 to 25 pages, usually chosen) Language of assessment: German and/or English creditable for bonus										
Module Area E: Ma	ster The	sis (30 l	ECTS cred	its)											
MINT-MA-162-mo1	Master	-Thesis													
	ECTS	30	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate						
	Courses			No co	No courses assigned to module										
	Method of assessment			Master's thesis (approx. 60 pages) Language of assessment: German and/or English											
	Additional Information			Time t	Time to complete: 6 months.										