



Annex SFB

Studienfachbeschreibung (subject description, SFB) for the subject MINT Teacher Education PLUS, Elite Network Bavaria (ENB) with the degree "Zusatzstudium" (60 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: 2016 Examination regulations version: 2016 Examination regulations version: 2016 Examination regulations version: 2016

Abbreviations used:	Course types: \mathbf{E} = field trip, \mathbf{K} = colloquium, \mathbf{O} = conversatorium, \mathbf{P} = placement/lab course, \mathbf{R} = project, \mathbf{S} = seminar, \mathbf{T} = tutorial, $\ddot{\mathbf{U}}$ = exercise, \mathbf{V} = lecture
	Term: 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 me- thod of assessment to be used in the current semester by two weeks after the start of the course at the latest and will communicate this in the customary manner.
	Should a module comprise more than one graded assessment, all assessments will be equally weighted, unless otherwise stated below.
	Should the assessment comprise several individual assessments, successful completion of the module will require successful completion of all individual assessments.

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

SPO+ASPO2015

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

14-Sep-2016 (2016-98) except mandatory electives 08-OCM-NAT-172, 08-BC-MOLP-172, 08-MCM3-172, 11-MRI1-171, 11-SSC-172, 11-STRG1-171, 11-STRG2-171 added in Fast Track procedure at a later time

14-Mar-2018 (2018-18) except mandatory electives 08-OCM-NAT-172, 08-BC-MOLP-172, 08-MCM3-172, 11-MRI1-171, 11-SSC-172, 11-STRG1-171, 11-STRG2-171 added in Fast Track procedure at a later time

22-Mar-2018 (2018-23)

12-Jun-2024 (2024-79)

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	(ir	n semesters)	Method of grading		Module level				
	Courses		То	be specif	ied in the form X	(y) with course type 2	Kabbreviated as specified abo	ove and number of we	ekly contact hours y			
	Method of assessment											
	Only after successful completion of			if applicable								
	Other prerequisites			if applicable								
	Participants and allocati- on of places			if applicable								
	Additional information			if applicable								
	Referred to in LPO I			if applicable (examination regulations for teaching-degree programmes)								

Module Area B: Foo	cus Subj	ect (30	ECTS cred	lits)								
Focus Subject Biole	Focus Subject Biology (30 ECTS credits)											
07-MECB-152-m01	Endogenous Clocks B											
	ECTS	5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course	S		V (2) Modu	V (2) Module taught in: English							
	Methoo	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) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German and/or English 								
07-MS1K-152-m01	Animal	Commu	inication									
	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								
	Methoo	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) presentation (20 to 45 minutes) Language of assessment: German and/or English 								
07-MS1ES-152-	Experir	mental S	Sociobiol	ogy								
m01	ECTS	10	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (2) + S (1) Module taught in: English								
	Methoo	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-MS1V-	Behavi	Behavioural Physiology and Sociobiology 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							
	Methoo	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-MS1V-	Behavi	oural P	hysiology	and S	ociobiology F2							
F2-152-m01	ECTS	15	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course	S			P (29) + S (1) Nodule taught in: German and/or English							
	Metho	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-MS2-152-m01	Molecu	ılar Bio	logy									
	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (3) Module taught in: German and/or English								
	Methoo	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-MS2ZE1-152-	Cell an	d Devel	opmental	Biology Master 1								
m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (1) + S (2) Module taught in: German and/or English								
	Methoo	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							

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07-MS2ZE2-152-	Cell and Developmental Biology Master 2										
m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	S	_		V (1) + S (2) Module taught in: English						
			essment	c) ora d) ora Stude 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) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German and/or English						
07-MS2ZE-	Cell and	d Devel	opmental	Biolog	gy F1						
F1-152-m01	ECTS	10	Duratio	n	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 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-MS2ZE-	Cell and	Cell and Developmental Biology F2									
F2-152-m01	ECTS	15	Duratio	n	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-MS2IN-	Infectio	on Biolo	gy		-						
F-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	S	_	V (2) + S (1) Module taught in: German and/or English							
	Method	l 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						

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07-MS2PA-152-	Pathogenicity of Microorganisms											
m01	ECTS 10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses			V (2) + S (1) Module taught in: English								
	Method of asso	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-MS2M-	Microbiology F	1										
F1-152-m01	ECTS 10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses			+ S (1) le taught in: Germar	n and/or English							
	Method of asso	essment	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								
	Additional Info	rmation	The ir	nternship must be co	mpleted full-time within a period of 5 to 6 weeks.							
07-MS2M-		Microbiology F2										
F2-152-m01	ECTS 15	Duratio		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 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 									
	Additional Info	rmation	The ir	nternship must be co	mpleted full-time within a period of 10 to 12 weeks	•						
07-MS2B-		d Molecu	lar Biotechnology									
T-152-m01	ECTS 10	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses		V (2) + S (1) Module taught in: English									
	Method of asso	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) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German and/or English 									

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07-MS3B-	Biophysics and Biochemistry										
B-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Cours	es			V (2) + S (1) Module taught in: English						
	Metho	od of ass	essment	c) ora d) ora Stude	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) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German and/or English						
07-MS2BI-152-m01	Bioin	formatics	;								
	ECTS	10	Duration	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Cours	es			+ S (1) Ile taught in: Germa	n 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-MS2BT-	Biophysics and Molecular Biotechnology F1										
F1-152-m01	ECTS 10 Duratio		n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Cours	es		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-MS2BT-	Bioph	iysics an	d Molecul	lar Bio	technology F2						
F2-152-m01	ECTS	15	Duration	n	1 semester	Method of grading (not) successfully completed	Modul level	graduate			
	Cours	es		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-MS31-152-m01	Curren	Current Methods in Biology											
	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	es		V (3) Modu	V (3) Module taught in: German and/or English								
	Metho	d of asso	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-MS31POEK-152-	Plant B	cology											
m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	25		V (2) · Modu	+ S (1) lle taught in: Germar	n and/or English							
				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 Immunobiology and Pharmaceutical Biology												
m01	ECTS	10	Duratio	· · · · · · · · · · · · · · · · · · ·	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	es			V (2) + S (1) Module taught in: German and/or English								
	Metho	d of asso	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-MS3S-152-m01	Syster	ns Biolo	gy										
	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	es		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-MS2BIF1-152-	Bioinformatics F1												
m01	ECTS	10	Duratior	۱	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	(15 to 30 pages) (l examination of c l examination in g sentation (20 to 2	or one candidate each (30 groups of up to 3 candi	dates (30 to 60 minutes) or	is) or					
07-MS2BIF2-152-	Bioinfc	ormatics	5 F2										
m01	ECTS	15	Duratior	۱	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Course	S			+ S (1) le taught in: Germ	nan 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-MSL2-152-m01	Laboratory Course 2												
	ECTS	10	Duratior	ı	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Course	:S		P (15) 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 									
	other p	orerequi	sites	Please consult with course advisory service in advance.									
07-MS31MPP-	Molecu	ular Plar	nt Physiol	ogy F1									
F1-152-m01	ECTS	10	Duratior	۱	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 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									
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07-MS31MPP-	Molecu	ılar Plar	nt Physiol	ogy F2						
F2-152-m01	ECTS	15	Duratio	n	1 semester	Method of grading (not) successfully completed	Modul level	graduate		
	Course	S			+ S (1) le taught in: Germai	n 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) canguage of assessment: German and/or English					
07-MS3BSBF1-152-	Bioche	mistry a	and Struc	tural B	iology F1					
m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	S			+ S (1) le taught in: Germar	n and/or English				
	Methoo	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-	Biochemistry and Structural Biology F2									
MS3BSBF2-152-	ECTS 15 Duration			n	1 semester	Method of grading (not) successfully completed	Modul level	graduate		
m01	Courses			P (29) + S (1) Module taught in: German and/or English						
	Methoo	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-MS3B-	Biophy	sics of l	Plant Mer	nbrane	Proteins F1					
PF1-152-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	d of asse	essment	b) log c) ora d) ora e) pre) written examination (30 to 60 minutes, including multiple choice questions) or) log (15 to 30 pages) 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) or) presentation (20 to 45 minutes) anguage of assessment: German and/or English					

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07-MS3B-	Biophy	sics of F	Plant Men	nbrane	Proteins F2					
PF2-152-m01	ECTS	15	Duratior	ı	1 semester	Method of grading (not) successfully completed	Modul level	graduate		
	Course	S			P (29) + S (1) Module taught in: German and/or English					
	Method	d of asse		a) wri b) log c) ora d) ora e) pre	tten examination (30 5 (15 to 30 pages) or 1 examination of one 11 examination in gro 25 esentation (20 to 45	o to 60 minutes, including multiple choice question e candidate each (30 to 60 minutes) or oups of up to 3 candidates (30 to 60 minutes) or	s) or			
07-MS3S-	Plant S	ignallin	g F1							
PF1-152-m01	ECTS	10	Duratior	ו	1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	S			+ S (1) lle taught in: German	n and/or English				
	Methoc	d of asse	essment	b) log c) ora d) ora e) pre	(15 to 30 pages) or l examination of one l examination in gro sentation (20 to 45	o to 60 minutes, including multiple choice question e candidate each (30 to 60 minutes) or oups of up to 3 candidates (30 to 60 minutes) or minutes) e German and/or English	s) or			
07-MS3S-	Plant Signalling F2									
PF2-152-m01	ECTS 15 Duration			า	1 semester	Method of grading (not) successfully completed	Modul level	graduate		
	Course	Courses			P (29) + S (1) Module taught in: German and/or English					
	Methoo	l of asse	essment	b) log c) ora d) ora e) pre	(15 to 30 pages) or l examination of one l examination in gro sentation (20 to 45	o to 60 minutes, including multiple choice question e candidate each (30 to 60 minutes) or oups of up to 3 candidates (30 to 60 minutes) or minutes) : German and/or English	s) or			
07-MS3PBM-	Pharma	aceutica	l Biology	and M	letabolomics F1					
F1-152-m01	ECTS	10	Duration	I	1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	S			P (14) + S (1) Module taught in: German and/or English					
	Methoo	l of asse	essment	b) log c) ora d) ora e) pre	(15 to 30 pages) or l examination of one l examination in gro sentation (20 to 45	o to 60 minutes, including multiple choice question e candidate each (30 to 60 minutes) or oups of up to 3 candidates (30 to 60 minutes) or minutes) e German and/or English	s) or			

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07-MS3PBM-	Pharma	aceutica	al Biology	and N	letabolomics F2					
F2-152-m01	ECTS	15	Duratio	n	1 semester	Method of grading (not) successfully completed	Modul level	graduate		
	Course	S			P (29) + S (1) Module taught in: German and/or English					
	Method	d of ass	essment	b) log c) ora d) ora e) pre	(15 to 30 pages) or l examination of one l examination in gro sentation (20 to 45	o to 60 minutes, including multiple choice questio e candidate each (30 to 60 minutes) or oups of up to 3 candidates (30 to 60 minutes) or minutes) German and/or English	ns) or			
07-MS3PPE-	Physio	logical	Plant Eco	logy F1						
F1-152-m01	ECTS	10	Duration	n	1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	S			+ S (1) lle taught in: Germar	n and/or English				
	Methoo	d of ass	essment	b) log c) ora d) ora e) pre	(15 to 30 pages) or l examination of one l examination in gro sentation (20 to 45	o to 60 minutes, including multiple choice questio e candidate each (30 to 60 minutes) or oups of up to 3 candidates (30 to 60 minutes) or minutes) German and/or English	ns) or			
07-MS3PPE-	Physio	Physiological Plant Ecology F2								
F2-152-m01	ECTS	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			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-MS3MCPE-	Molecu	ılar and	Chemica	l Plant	Ecology F1					
F1-152-m01	ECTS	10	Duration		1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	Courses			P (14) + S (1) Module taught in: German and/or English					
	Method of assessment			b) log c) ora d) ora e) pre	(15 to 30 pages) or l examination of one l examination in gro sentation (20 to 45	o to 60 minutes, including multiple choice questio e candidate each (30 to 60 minutes) or pups of up to 3 candidates (30 to 60 minutes) or minutes) German and/or English	ns) or			

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07-MS3MCPE-	Molecular and Chemical Plant Ecology F2										
F2-152-m01	ECTS	15	Duratio	1	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	l of asso	essment	b) log c) ora d) ora e) pre	(15 to 30 pages) of l examination of or l examination in gr sentation (20 to 45	ne candidate each (30 oups of up to 3 candi	dates (30 to 60 minutes) or	s) or			
07-MS3SYF1-152-	System	s Biolo	gy F1								
m01	ECTS	10	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			Modu	+ S (1) le taught in: Germa						
	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-MS3SYF2-152-	Systems Biology F2										
m01	ECTS 15 Duratio		Duratio	า	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses			P (29) + S (1) Module taught in: German and/or English							
	Method	l of asso	essment	b) log c) ora d) ora e) pre	(15 to 30 pages) of l examination of or l examination in gr sentation (20 to 45	ne candidate each (30 oups of up to 3 candi	dates (30 to 60 minutes) or	s) or			
07-MLS1B-152-	Method	ls in Lif	e Science	s B							
m01	ECTS	7	Duratio	ı	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses	S		V (3) Module taught in: English							
	Method of assessment			c) ora d) ora	l examination of or	ne candidate each (30 oups of up to 3 candi	uding multiple choice question to 60 minutes) or dates (30 to 60 minutes)	s) or			

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o7-MS3COB-	Compu	tationa	l Biology	F1						
F1-152-m01	ECTS	10	Duration	I	1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	S			P (14) + S (1) Module taught in: German and/or English					
	Metho	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-MS3COB-	Compu	tationa	l Biology	F2						
F2-152-m01	ECTS	15	Duration	า	1 semester	Method of grading (not) successfully completed	Modul level	graduate		
	Course	S) + S (1) le taught in: Germa	n 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-MLS2-152-m01	Topics and Concepts in Life Sciences									
	ECTS 10 Duratio			I	1 semester	Method of grading numerical grade	Modul level	graduate		
	Courses			V (3) Module taught in: English						
	Metho	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 (approx. 30 to 60 minutes) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: English 						
07-MSL3-152-m01	Labora	tory Co	urse 3							
	ECTS	15	Duration	۱	1 semester	Method of grading (not) successfully completed	Modul level	graduate		
	Course	S		P (30) 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						
	other p	rerequi	sites	Pleas	e consult with cour	se advisory service in advance.				

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	I _											
07-MSA2-152-m01		al Interr	nship 2									
	ECTS	10	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course	S		P (15)	•							
				Modu	le taught in: Germa	n and/or English						
	Method	d of ass	essment	a) wri	tten examination (a	pprox. 30 to 60 minu	tes, including multiple choice c	juestions) or				
					(approx. 15 to 30 p							
						e candidate each (30						
							lates (30 to 60 minutes) or					
					sentation (approx.		ich					
	othorn		citos		Language of assessment: German and/or English Please consult with course advisory service in advance.							
		orerequi		Pleas			auvance.					
07-MSA3-152-m01	Externa	1					(l sue du sta			
		15	Duratio		1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course	S		P (30)								
					le taught in: Germa							
	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							
	other prerequisites			Please consult with course advisory service in advance.								
07-MSL1-152-m01	Laboratory Course 1											
	ECTS	5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course	S		P (5)		•		A	-			
				Module taught in: German and/or English								
	Method	d of ass	essment				uding multiple choice question	s) 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								
					sentation (20 to 45	minutes) : German and/or Engl	ich					
	othory		citor	-		-						
	other p	rerequi	sites	Pleas	e consult with cours	se advisory service in	auvance.					

07-MSA1-152-m01	Extern	al Interr	nship 1						
	ECTS	5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Course	es		P (10) Modu	le taught in: Germa	n and/or English	•	••	
	Metho	od 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					
	other	prerequi	sites	Pleas	e consult with cours	se advisory service in	advance.		
07-ML-152-m01	Linux	and Perl							
	ECTS	5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses			S (3) Modu	le taught in: Germa	n 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-MLS1-152-m01	Metho	ds in Lif	e Science	95					
	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses			V (3) Module taught in: English					
	Metho	od 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) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: English 					
07-MLS2B-152-	Topics	and Co	ncepts in	Life Sc	iences B				
m01	ECTS	7	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Course	es		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: English					

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07-MS31B-152-	Curren	nt Metho	ds in Bio	logy B							
m01	ECTS	7	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Course	es		V (3) Modu	le taught in: Englisl	n					
	Metho	d of ass	essment	c) ora d) ora	l examination of on I examination in gro	e candidate each (30	lates (30 to 60 minutes)	is) or			
07-MS31POEK-		Ecology	B								
B-152-m01	ECTS	5	Duratio		1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Course	es		V (2) Modu	/ (2) Nodule taught in: English						
	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-MS31PIP-	Plant I	Plant Immunobiology and Pharmaceutical Biology B									
B-152-m01	ECTS 5 Duratio			n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Course	es		V (2) Modu	V (2) Module taught in: German and/or English						
	Metho	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-MS3BB-	Biophy	ysics an	d Biocher	nistry	В						
B-152-m01	ECTS	5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Course	es		V (2) Module taught in: English							
	Method of assessment			c) ora d) ora Stude	l examination of on l examination in gro ents will be informed	e candidate each (30 oups of up to 3 candic	lates (30 to 60 minutes) ength and scope of the assess		ne course.		

07-MS2BT-	Bioph	ysics an	d Molecul	ar Bio	ar Biotechnology B								
B-152-m01	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Cours	es		V (2) Modu	le taught in: English	1		,					
	Metho	od of ass	essment	c) ora d) ora Stude	l examination of one Il examination in gro ents will be informed	e candidate each (30 oups of up to 3 candio	dates (30 to 60 minutes) ength and scope of the assess		ne course.				
07-MS1B-152-m01	Neuro	biology,	Behaviou	ral Ph	ysiology and Anima	l Ecology B							
	ECTS	7	Duration	า	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Cours	es		V (3) Modu	le taught in: English	I							
	Metho	od 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-MNBB-152-m01	Neuro	genetics	s of Behav	iour B									
	ECTS	5	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Cours	es		V (3) Modu	le taught in: English	I							
	Metho	od 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-MEN-	Neuro	modulat	ion and N	eurona	al Development B								
MNDB-152-mo1	ECTS	5	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Cours	es		V (3) Modu	le taught in: English	I			_				
	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) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German and/or English									

07-MTÖB-152-m01	Anima	Animal Ecology and Tropical Biology B											
	ECTS	5	Duratior	۱	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Course	S		V (2)					_				
					le taught in: Germar								
	Metho	d of asse	essment			o to 60 minutes, inclu e candidate each (30	Iding multiple choice question	s) or					
							lates (30 to 60 minutes)						
						German and/or Engli							
07-MTÖ2B-152-	Anima	Ecology	and Trop	oical B	iology 2 B								
m01	ECTS	5	Duratior	า	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Course	S		V (2)	°			Э					
					le taught in: English			-					
	Metho	d of asse	essment				Iding multiple choice question	s) or					
						e candidate each (30 sups of up to 2 candid							
					oral examination in groups of up to 3 candidates (30 to 60 minutes) udents will be informed about the method, length and scope of the assessment prior to the course.								
				Langu	age of assessment:	German and/or Engli	ish	•					
07-MKB-152-m01	Anima	l Commu	nication	В									
	ECTS	7	Duratior		1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Course	S		• • •	V(2) + S(1)								
				Module taught in: German and/or English									
	Metho	d of asse	essment	a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or									
						e candidate each (30	to 60 minutes) or						
				d) ora	l examination in gro	oups of up to 3 candid	lates (30 to 60 minutes) or						
					sentation (20 to 45		ich.						
07-MESB-152-m01	Evnori		ociobiolo		lage of assessment:	German and/or Engl	1511	1					
07-111230-152-11101	ECTS	-	Duration		1 semester	Mothod of grading	(not) successfully completed	Modul level	graduate				
	Course	7	Duration	I V (2) -			(not) successfully completed	Modul level	gladuate				
	Course	5			le taught in: English	I							
	Metho	d of asse	essment	a) wri	tten examination (30	o to 60 minutes, inclu	Iding multiple 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)										
						German and/or Engli	ish						

07-MS2B-152-m01	Molec	ular Biol	ogy B							
	ECTS	7	Duratio	n	1 semester	Method of grading (not) successfully comp	leted	Modul level	graduate	
	Course	es		V (3) Modu	le taught in: Germa	n and/or English				
			essment	c) ora d) ora Stude	l examination of on Il examination in gro ents will be informed	o to 60 minutes, including multiple choice que e candidate each (30 to 60 minutes) or oups of up to 3 candidates (30 to 60 minutes) d about the method, length and scope of the a e German and/or English			e course.	
07-MS2INF-B-152-	Infecti	ion Biolo	gy B						~	
m01	ECTS	5	Duratio		1 semester	Method of grading (not) successfully comp	leted	Modul level	graduate	
	Course	es		V (2) Modu	le taught in: Germa	n and/or English				
			essment	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					
07-MS2PA-B-152-	Patho	genicity	of Microo	organis	ims B					
m01	ECTS	5	Duratio	n	1 semester	Method of grading (not) successfully comp	leted	Modul level	graduate	
	Course	es	_	V (2) Modu	V (2) Module taught in: English					
	Metho	od of ass	essment	c) ora d) ora	l examination of on Il examination in gro	o to 60 minutes, including multiple choice que e candidate each (30 to 60 minutes) or oups of up to 3 candidates (30 to 60 minutes) : German and/or English	estions)	or		
07-MBI-B-152-m01	Bioinf	ormatics	B							
	ECTS	5	Duratio	n	1 semester	Method of grading (not) successfully comp	leted	Modul level	graduate	
	Course	es		V (2) Modu	le taught in: Germa	n 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-MS-B-152-m01	System	s Biolo	gy B									
	ECTS	5	Duratio	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course	S	-3	V (2)				°				
					le taught in: Germa							
	Methoo	l of asse	essment				Iding multiple choice question	s) or				
						e candidate each (30 puns of un to 2 candic						
					l) oral examination in groups of up to 3 candidates (30 to 60 minutes) .anguage of assessment: German and/or English							
07-MKE-	Nucleus	s Works	hop									
WO-152-m01	ECTS	7	Duration	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course	S		Ü (5) -		· · · · · ·						
					le taught in: Germa							
	Method	l of asse	essment				iding multiple choice question	s) or				
						e candidate each (30	to 60 minutes) or lates (30 to 60 minutes)					
						: German and/or Engl						
07-MTROP-152-	Tropica	l Ecolog	gy									
m01	ECTS	TS 5 Duration		n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	5		Ü (3)				° .				
					le taught in: Germa							
	Method	l 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							
							lates (30 to 60 minutes) or					
					sentation (20 to 45							
				_	-	: German and/or Engl	ish	0				
07-MPWD-152-m01			1		1							
	ECTS	5	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course	5		S (2) Modu	le taught in: Germa	n and/or English						
	Mothor	loface	essment				Iding multiple choice question	c) or				
	Method	101 855	essment		(15 to 30 pages) or			5) 01				
				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								
					sentation (20 to 45		ich					
				Langu	lage of assessment:	: German and/or Engl	ish					

07-MGLN-152-m01	Quality Assura	nce, Goo	d Prac	tice, Biosafety and B	liosecurity					
	ECTS 5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		V (1) -				~			
				le taught in: Germar	-					
	Method of asse	essment	a) wri	tten examination (30	o to 60 minutes, incl German and/or Eng	uding multiple choice quest	ions)			
07-MV-	Special Subject	t Studies	-	gy and Natural Scien	-					
MINT4-152-mo1	ECTS 5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	Duration	S (2)		method of grading	Indificited grade	modullevel	3.44446		
			Modu	Module taught in: German and/or English						
		_		Course type: might also be offered in V, Ü, P, R or E format						
	Method of asse	essment			o to 60 minutes, incl	uding multiple choice quest	ions) or			
			c) ora	; (15 to 30 pages) or Lexamination of one	e candidate each (30	to 60 minutes) or				
			d) ora	al examination in gro	ups of up to 3 candi	dates (30 to 60 minutes) or				
				esentation (20 to 45		• •				
	- 41				German and/or Eng					
	other prerequis				e advisory service in	advance.				
07-MV- MINT4B-152-m01		1		gy and Natural Scien	· · ·			and the second sec		
		Duration	1 S (2)	1 semester	Method of grading	(not) successfully complete	ed Modul level	graduate		
	Courses		~ ~ ~	lle taught in: Germar	and/or English					
					e offered in V, Ü, P, F	R or E format				
	Method of asse	essment			o to 60 minutes, incl	uding multiple choice quest	ions) or			
			b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or							
						dates (30 to 60 minutes) or				
				esentation (20 to 45						
					German and/or Eng					
	other prerequis				e advisory service in	advance.				
07-MV-		T.		gy and Natural Scien	-					
MINT5-152-m01	ECTS 6	Duration		1 semester	Method of grading	(not) successfully complete	ed Modul level	graduate		
	Courses		S (3)	la taught in Cormo	and lar English					
				lle taught in: Germar se type: might also b		? or F format				
	Method of asse	essment		Course type: might also be offered in V, Ü, P, R or E format Successful completion as certified by the lecturer						
			Language of assessment: German and/or English							
	other prerequis	sites	Pleas	e consult with cours	e advisory service in	advance.				

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07-MV4-152-m01	Specia	l Subjec	t Studies	outsid	e Natural Science	25 4							
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		S (2)									
						an and/or English							
					<u>, </u>	be offered in V, Ü, P, R		-)					
	Method	a of asse			(15 to 30 pages) (ding multiple choice question	s) or					
						one candidate each (30 t	o 60 minutes) or						
				d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or									
					sentation (20 to 4		-h						
	othorn		itaa		Language of assessment: German and/or English Please consult with course advisory service in advance.								
a = M V (D + z a - m a + a)		rerequis				,	uvance.						
07-MV4B-152-m01	_ <u> </u>	<u> </u>			e Natural Science		(
	ECTS	5	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Course	S		S (2) Modul	le taught in• Germ	an and/or English							
					odule taught in: German and/or English burse type: might also be offered in V, Ü, P, R or E format								
	Method	d of asse	essment				ding multiple choice question	s) 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								
					l examination in g sentation (20 to 4		ates (30 to 60 minutes) or						
						nt: German and/or Englis	sh						
	other p	rerequis				irse advisory service in a							
07-DR4-152-m01	Teachi												
		5	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate				
	Course	s		S (3)				•	•				
						an and/or English							
						be offered in V, Ü, P, R							
	Method	d of asse				as certified by the lectur nt: German and/or Englis							
	othorn	rerequis			-	irse advisory service in a			_				
07 MS1 152 mo1					siology and Anin	,	uvance.						
07-MS1-152-m01	ECTS		Duration			Method of grading	numerical grade	Modul level	graduata				
		10			1 semester	method of grading		Modul level	graduate				
	Course	5		V (3) Modul	le taught in: Engli	sh							
	Methor	d of assi					ding multiple choice question	s) or					
	method	. 01 0350				one candidate each (30 t		5, 01					
				d) oral examination in groups of up to 3 candidates (30 to 60 minutes)									
				Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German and/or English									
					age of assessmer	it: German and/or Englis							
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07-MS1CB-152-	Endogenous Clocks												
m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	2S			+ S (1) Ile taught in: Engli	sh							
	Metho	d of ass	sessment	c) ora d) ora Stude	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) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German and/or English								
07-MS1NMN-	Neuror	Neuromodulation and Neuronal Development											
D-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	es			+ S (1) Ile taught in: Engli	sh							
	Metho	d of ass	sessment	c) ora d) ora Stude	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) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German and/or English								
07-MS1N-	Neurog	Neurogenetics of Behaviour											
B-152-m01	ECTS	10	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	es		V (2) + S (1) Module taught in: English									
	Method of assessment			c) ora d) ora Stude	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) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German and/or English								
07-MS1N-	Neurot	oiology	F1										
F1-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	es			+ S (1) Ile taught in: Germ	an and/or English							
	Metho	d of ass	sessment	b) log c) ora d) ora e) pre	g (15 to 30 pages) of Il examination of o al examination in g esentation (20 to 4	ination (30 to 60 minutes, including multiple choice questions) or							

07-MS1N-	Neurob	Neurobiology F2											
F2-152-m01	ECTS	15	Duratio	n	1 semester	Method of grading (not) successfully completed	Modul level	graduate					
	Course	S) + S (1) le taught in: Germa	n and/or English							
	Methoo	l 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-MS1TÖ-152-	Animal	Ecolog	y and Tro	pical B	iology								
m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses				V (2) + S (1) Module taught in: German and/or English								
	Method	l 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-MS1TÖ2-152-	Animal	Ecolog	y and Tro	pical B	iology 2								
m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	Courses		V (2) + S (1) Module taught in: English									
	Method of assessment		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) Students will be informed about the method, length and scope of the assessment prior to the call Language of assessment: German and/or English 				e course.					
07-MS1TÖF1-152-	Animal	Ecolog	y F1										
m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	S			+ S (1) le taught in: Germa	n and/or English							
	Methoo	d of ass	essment	b) log c) ora d) ora e) pre	written examination (30 to 60 minutes, including multiple choice questions) or log (15 to 30 pages) 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) or oresentation (20 to 45 minutes) nguage of assessment: German and/or English								

07-MS1TÖF2-152-	Animal	Ecology	y and Tro	pical B	iology F2						
m01	ECTS	15	Duratio	ı	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Course	S			P (29) + S (1) Module taught in: German and/or English						
	Methoo	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						
Focus Subject Cher	mistry (3	o ECTS	credits)								
08-0CM-NAT-172-	Modern Aspects of Natural Product Chemistry and Biological Chemistry										
m01	ECTS	5	Duratio	ı	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			S /Module taught in: German 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 allo- cation of places			ces. P	laces will be alloca	ted according to the n	umber of subject semesters; a	among applican	Biochemie (Biochemistry): 20 pla- ts with the same number of sub- -allocated as they become availa-		

08-BC-MOLP-172-	Molecu	ular Bio	logy laboi	atory o	atory course								
m01	ECTS	10	Duratio	n	1 semester	Method of grading	g numerical grade	Modul level	undergraduate				
	Course	es		P (5)	, (2)								
	Metho	d of ass	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 (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)									
				Langu	lage of assessme	nt: German and/or En							
						nce a year, winter sem	lester						
		pants a		Bioch	emie (Biochemist	ry) 24 places.							
	cation	of place	25						ber of applications exceed the				
									a 1 (two thirds of places): current grade, places will be allocated by				
				lot. Quota 2 (one third of places): number of subject semesters of the respective applicant; among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated as they									
				become available.									
				Chemie (Chemistry), Master's and MINT-Lehramt PLUS Master's: 6 places. Selection process: 1. Applications of Master's de-									
				gree programme Chemie (Chemistry) (120 ECTS credits) will be considered first: Places will be allocated according to the num-									
				ber 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. 2. In case that there are places left after procedure 1 is finished completely, theses places will be distributed among the students in the Master's degree programme MINT-Lehramt PLUS as follows: Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places re-allocated by lot. A waiting list will be maintained and places re-allocated by lot.									
				located by lot as they become available.									
08-MCM3-172-m01	Drug d	esign											
	ECTS	5	Duratio		1 semester	Method of grading	g numerical grade	Modul level	graduate				
	Course	es		S (2) + Ü (1)									
				Module taught in: German or English									
	Metho	d of ass	essment			o minutes) with discu							
						nt: German and/or En	•						
			nd allo-	22 pla	aces. 16 places for	students of the Mas	er's degree programme	e Chemie (Chemistry): Pla	aces will be allocated according to				
	cation	ofplace	es						ledicinal Chemistry) as their focus				
									nme Biochemie (Biochemistry): th the same number of subject				
									amme MINT-Lehramt PLUS: Pla-				
									the same number of subject seme-				
									d by lot as they become available.				
L								·	<u> </u>				

08-HKM1-152-m01	Organo- and B	iocatalys	is								
	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses		S (3)	S (3)							
	Method of ass	essment			pprox. 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)							
				anguage of assessment: German and/or English							
08-PH-KAC-152-	Clinical-analy	tical Chen	nistry	stry							
m01	ECTS 5 Duratio		n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses		V (3)								
	Method of ass	essment		n examination (app uage of assessment:	rox. 120 minutes) : German and/or English						
08-PH-KACP-152-	Practical cours	se of clini	cal-ana	alytical Chemistry							
m01	ECTS 5	Duratio	n	1 semester	Method of grading (not) successfully completed	Modul level	undergraduate				
	Courses		P (5)								
	Method of ass	d of assessment Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each)									
					cal performance (2 to 4 random examinations) German and/or English						
08-SCM3-152-m01	Bioorganic Ch	emistry									
	ECTS 5 Duration		n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses		S (3)	S (3)							
	Method of ass	essment	a) wri	a) written examination (approx. 45 to 90 minutes) or							
					of one candidate each (20 to 30 minutes) or n groups of up to 3 candidates (15 to 30 minutes per candidate)						
			Language of assessment: German and/or English								
08-SCM1-152-m01	Supramolecul	ar Chemis									
	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses		S (3)								
	Method of ass	essment									
			b) oral examination of one candidate each (approx. 20 minutes) Language of assessment: German and/or English								
o8-FU-Mo-	Molecular Mat	orials (Lo	-								
MaV-152-mo1	ECTS 5	Duratio		1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Courses	Duratio		+ S (1)	method of glading humenear glade	Modulievel					
	Method of ass	ecoment			approx. 90 to 180 minutes) or b) oral examination of	fone candidate	each (20 to 20 minutes) or c) oral				
	Method of ass	essment			up to 3 candidates (approx. 15 minutes per candidates)						
			(appr	(approx. 30 minutes)] as well as talk (approx. 30 minutes), weighted 3:1							
			Langu	lage of assessment	German and/or English						

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08-FU-NT-152-m01	Chemi	cally an	d bio-insp	ired N	anotechnology for M	Material Synthesis						
-		5	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			V (4)								
	Methoo	d of ass	sessment	b) ora c) ora d) log e) pre	 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 Scier	nce 1 (Basi	•								
Wi1-152-m01		5	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course			V (3)	+ Ü (1)		-					
	Methoo	d of ass	sessment	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-	Material Science 2 (The Material Groups)											
Wi2-152-m01	ECTS 5 Duration				Method of grading	numerical grade	Modul level	undergraduate				
	Courses		V (3) + 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 								
03-FU-PM1-152-	Polyme	er Chen	nistry 1 (Le	cture	and Practical Course	e)						
m01	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		V (2)	+ P (2)							
	Method of assessment			a) assessment and b) 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) Language of assessment: German and/or English Assessment offered: Once a year, winter semester creditable for bonus								

08-PCM1a-161-	Laser	Spectros	бсору								
m01	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	es		$S(2) + \ddot{U}(1)$							
				Module taught in: German or English							
	Metho	d of ass	essment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes)							
				Language of assessment: German and/or English							
08-PCM1b-161-	Advan	ced Phy	sical Chei	mistry	(Lab)						
m01	ECTS	5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses			P (4) Modu	P (4) Module taught in: German or English						
	Metho	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) and assessment of practical performance (2 to 4 random examinations) .anguage of assessment: German and/or English						
	Additi	onal Info	ormation	Addit	ional information or	n module duration: bl	ock taught lab course with app	orox. 20 working	g days.		
08-PCM2-161-m01	Statis	ical Me	chanics a	nd Reaction Dynamics							
	ECTS	ECTS 5 Duration		n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	25			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							
08-PCM3-161-m01	Nanos	cale Ma	terials								
	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses				+ Ü (1) ıle taught in: Germa	n 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 creditable for bonus							

08-PCM4-161-m01	Ultrafa	st spec	troscopy	and qu	antum-control						
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	25		S (2) - Modu	+ Ü (1) Ile taught in: Germai	n or English					
	Metho	d of asso	essment	b) ora c) talk	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						
		prerequi					8-PCM1b recommended.				
08-PCM5-161-m01		al Chem:	istry of S	upram	olecular Assemblies	5		<u>.</u>			
	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	25			2) + Ü (1) dule taught in: German or English						
	Method of assessment b) oral examination (approx. 90 minutes) or c) talk (approx. 30 minutes) Language of assessment: German and/or English										
08-PCM6-161-m01	Physic	al Chem:	nistry (Adv	vanced	Lab)						
	ECTS	5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Course	25		P (4) Modu	P (4) Nodule taught in: German or English						
	Metho	d of ass	essment		presentation (approx. 20 minutes) Language of assessment: German and/or English						
	Additi	onal Info	ormation	Additional information on module duration: block taught lab course with approx. 20 working days.							
08-TCM2-161-m01	Basics	and Ap	plications	s of Qu	antum Chemistry						
	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	es		• • •	+ Ü (2)						
	Metho	d of ass	essment	 a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English 							

08-TCM3-161-m01	Numerical Me	thods and	Progra	amming							
	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses		S (2) -	+ Ü (2)							
	Method of ass	essment		a) written examination (approx. 90 to 180 minutes) or							
					e candidate each (20 to 30 minutes) or	(condidata) or					
		c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or									
				sentation (approx. 3							
			Langu	lage of assessment:	German and/or English						
08-TCM4-161-m01	Quantum Dyna	amics									
	ECTS 5	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses		S (2) ·	+ Ü (2)							
	Method of ass	essment			pprox. 90 to 180 minutes) or						
					e candidate each (20 to 30 minutes) or pups of up to 3 candidates (approx. 15 minutes per	(candidata) ar					
				(approx. 20 pages)		canuluale) of					
			e) pre	sentation (approx.	30 minutes)						
				Language of assessment: German and/or English							
08-TCM1-161-m01			pretical Chemistry								
	ECTS 5	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses			+ Ü (2)							
	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) pre	e) presentation (approx. 30 minutes)							
			Language of assessment: German and/or English								
08-TCAP1-161-m01			<u> </u>	t course quantum cl							
	ECTS 5	Duratio		1 semester	Method of grading (not) successfully complete	d Modul level	graduate				
	Courses		P (5)								
	Method of ass	essment		ntation (approx. 30							
					: German and/or English		davia				
		_			n module duration: block taught lab course with a	oprox. 20 working	days.				
08-TCAP2-161-m01				t course quantum d			Laws durate				
	ECTS 5	Duratio		1 semester	Method of grading (not) successfully complete	a Modul level	graduate				
	Courses		P (5)								
	Method of ass	essment		ntation (approx. 30 lage of assessment:	minutes) : German and/or English						
	Additional Info	ormation	-		n module duration: block taught lab course with a	oprox. 20 working	g davs.				
							···/-*				

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08-ACM1-161-m01	Advan	ced Inor	ganic Che	emistry	mistry							
	ECTS	10	Duratio	n	2 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es		S (3) ·	5 (3) + S (3)							
	Metho	d of ass	essment		a) written examination (approx. 90 to 180 minutes) or							
					b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or							
					(approx. 20 pages)		ates (approx. 15 minutes pe	er candidate) or				
					sentation (approx.							
				Langu	lage of assessment	: German and/or Engl	ish					
08-ACPM-161-m01	Inorga	nic Cher	mistry pra	actical	course for advance	d						
	ECTS	10	Duration	n	1 semester	Method of grading	(not) successfully complete	ed Modul level	graduate			
	Course	es		P (24) Modu	(24) odule taught in: German or English							
	Metho	d of ass	essment		eport on practical course (approx. 20 pages) and talk (approx. 15 minutes) anguage of assessment: German and/or English							
	Additi	onal Info	rmation	Addit	ional information o	n module duration: bl	ock taught lab course with a	approx. 40 working	g days.			
08-ACM2-161-m01	Bioino	Bioinorganic Chemistry										
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es		S (3) Modu	S (3) Module taught in: German or English							
	Metho	d of ass	essment	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-ACM3-161-m01	Solid s	state che	emistry ar	nd inor	ganic materials							
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es		S (3)								
	Metho	d of ass	essment	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English								

08-0CM-SYNT-161-	Mod	odern Synthetic Methods									
m01	ECTS	5 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses				S (2) + Ü (1) Module taught in: German or English						
				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							
					ganic Chemistry						
m01	ECTS	5 10	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Cour	ses		P (20) Modu	le taught in: Germa	n or English					
	Meth	nod of ass	sessment			es) and talk (approx. German and/or Engl					
08-0CM-FM-161-	-		ional Mat	erials							
m01	ECTS	5 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Cour	ses		S (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-BC-			logy for A	dvance	d Students						
MOLMC-161-mo1	ECTS	5 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Cour	ses		V (2) -							
	Meth	nod of ass	sessment	 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-BC-VPMM-161-	Practica	al cours	e "Molec	ular M	lar Machines" for advanced students							
m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5		P (10)		•	·	•				
	Method of assessment				Log (approx. 20 pages) and talk (approx. 15 minutes)							
					Language of assessment: German and/or English							
	Module comple		ssfully	08-B(C-MOLP							
	Additio	nal Info	rmation	Addit	dditional information on module duration: block taught lab course with approx. 40 working days.							
08-BC-VPPD-161-	Practica	al cours	e "Protei	n Degi	radation in Eukaryot	es" for advanced stu	dents					
m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5		P (10)								
	Method	l of asse	essment			id talk (approx. 15 m German and/or Eng						
	Module comple		ssfully	08-B(C-MOLP							
	Additio	nal Info	rmation	Addit	ional information on	module duration: b	ock taught lab course with	n approx. 40 working	days.			
08-BC-VPRB-161-	Practica	al cours	e "RNA B	iocher	chemistry" for advanced students							
m01	ECTS 10 Duratio			n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			P (10)				,				
	Method of assessment					nd talk (approx. 15 m German and/or Eng						
		lodules successfully ompleted		08-B(98-BC-MOLP							
			rmation	Addit	Additional information on module duration: block taught lab course with approx. 40 working days.							
08-BC-VPSB-161-	Practica	al cours		ural Biology" for advanced students								
m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5	,	P (10)								
	Method	l of asse	essment		.og (approx. 20 pages) and talk (approx. 15 minutes) .anguage of assessment: German and/or English							
	Module comple		ssfully	08-B0	C-MOLP							
	Additio	nal Info	rmation	Addit	ional information on	module duration: b	ock taught lab course with	n approx. 40 working	days.			
08-FMM-MP-161-	Lab Cou	ırse Ma	terial Sci	ence								
m01	ECTS	5	Duratio	n	1 semester	Method of grading	(not) successfully comple	eted Modul level	graduate			
	Courses	5	•	P (8)	•	•						
			and a	ssessment of praction		ent examination talks app 4 random examinations)	orox. 15 minutes eac	h, log approx. 5 to 10	pages each)			
				Langl								
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08-FMM-PA-161-	Project Work							
m01	ECTS 5 Duration		า	1 semester	Method of grading (not) successfully complete	ed Modul level	graduate	
	Courses			P (10)	~	·	•	
	Method of assessment							
				Language of assessment: German and/or English				
03-FU-PM2-161- m01	Polyme	ers II						
	ECTS 5 Duration				1 semester	Method of grading numerical grade	Modul level	graduate
	Courses			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-HKM2-161-m01	Advanced organometallic chemistry and its application in homogeneous catalysis							
	ECTS	5	Duration	ı	1 semester	Method of grading numerical grade	Modul level	graduate
	Courses			S (3) Module taught in: German or English				
	Method of assessment			 a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English 				
08-HKM3AC-161- m01	Practical course "Homogeneous catalysis in Inorganic Chemistry"							
	ECTS 5 Duration		ı	1 semester	Method of grading (not) successfully complete	ed Modul level	graduate	
	Courses			P (6) Module taught in: German or English				
	Methoo	l of asse	essment	report on practical course (approx. 10 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English				
08-HKM3OC-161- m01	Practical course "Homogeneous catalysis in Organic Chemistry"							
	ECTS 5 Duration			า	1 semester	Method of grading (not) successfully complete	ed 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-HKM4-161-m01	Advar	nced tran	sition me	tal chemistry								
	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Cours	es		S (3)	(3)							
	Metho	od 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 							
) presentation (approx. 30 minutes)							
					anguage of assessment: German and/or English							
08-MCM1-161-m01	Practi	ical cours	e medici	nal che	emistry							
	ECTS	10	Duration	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Cours	es		P (10) Modu	P (10) Module taught in: German or English							
	Metho	od of ass	essment	and a	/ortestate/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) anguage of assessment: German and/or English							
08-MCM2a-161-	Pharn	naceutica	al/Medici	nal Ch	emistry 1							
m01	ECTS 5 Duration		n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			V (3)								
	Metho	od of ass	essment	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-MCM2b-161-	Pharr	naceutica	al/Medici	nal Chemistry 2								
m01	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			V (3)								
	Metho	od 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-SCM2-161-m01	Supramolecul	ar Chemis	istry (Practical Course)								
	ECTS 5	Duratio	n	1 semester	Method of grading (not) successfully cor	npleted Modul level	graduate				
	Courses		P (6)								
			Module taught in: German or English								
	Method of ass	essment	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							
	Modules succe completed	essfully	08-S(08-SCM1							
08-SCM4-161-m01	Supramolecul	ar Chemis	strv (Ad	Ivanced Lab)							
	ECTS 5	Duratio		1 semester	Method of grading (not) successfully cor	npleted Modul level	graduate				
	Courses	<u> </u>	P (6)			· ,	10				
				Module taught in: German or English							
	Method of ass		Langi	presentation (approx. 20 minutes) Language of assessment: German and/or English							
	Modules succe completed	essfully	08-S(-SCM2							
	Additional Info	ormation	Addit	ional information o	on module duration: block taught lab course	with approx. 20 working	g days.				
Focus Subject Com	puter Science (30 ECTS c	redits)	l.							
10-l-lÜ-152-m01	Information Tr	ansmissi	on								
	ECTS 10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Courses		V (4)	+ Ü (2)							
	Method of ass	essment	lf anr of on 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 candi- date). creditable for bonus							
	Referred to in	LPO I	§ 22	l Nr. 3 b)							
10-I-AGT-152-m01	Algorithmic G	- <u>-</u>	· ·	7							
	ECTS 5	Duratio		1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Courses			+ Ü (2)							
	Method of ass		If anr of on date) Langu credit	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus							
	Referred to in	LPUT	§ 22	l Nr. 3 b)							

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10-I-WBS-152-m01	Knowledge-ba	ledge-based Systems											
	ECTS 5	Duration	1 semes	ster	Method of grading	numerical grade	Modul level	undergraduate					
	Courses		V (2) + Ü (2)										
	Method of asso	essment	If announced b of one candida date). Language of as	vritten examination (approx. 60 to 120 minutes). f announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- late). anguage of assessment: German and/or English reditable for bonus									
	Referred to in L	PO I	§ 22 Nr. 3 b)										
10-I-DM-152-m01	Data Mining												
	ECTS 5	Duration	n 1 semes	ster	Method of grading	numerical grade	Modul level	undergraduate					
	Courses		V (2) + Ü (2)										
	Method of asso		If announced b of one candida date). Language of as creditable for b	ritten examination (approx. 60 to 120 minutes). announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination f one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- ate). anguage of assessment: German and/or English reditable for bonus									
	Referred to in L		§ 22 Nr. 3 b)										
10-I-00P-152-m01	Object oriente												
	ECTS 5	Duration		ster	Method of grading	numerical grade	Modul level	undergraduate					
	Courses		V (2) + Ü (2)			<u>``</u>							
	Method of asso		written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus										
	Referred to in L		§ 22 II Nr. 3 b)										
10-I-RK-152-m01	Computer Netv	-											
	ECTS 8	Duration		ster	Method of grading	numerical grade	Modul level	undergraduate					
	Courses		V (4) + Ü (2)			<u>``</u>							
	Method of asso		written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus										
	Referred to in L	PO I	§ 22 Nr. 3 b)										
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T Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)	JMU Würzburg • generated 19-Apr-2025 • exa

10-I-HWP-152-m01	Practical co	Practical course in hardware											
	ECTS 10	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate					
	Courses	•	P (6)	5)									
	Method of	assessment		ortfolio: completion of approx. 3 to 10 project assignments (approx. 250 hours total) and presentation of results (approx. 10									
				inutes per project)									
	Referred to		-	3 22 II Nr. 3 b)									
10-l-3D-152-m01	-	oud Process											
	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Courses			+ Ü (2)									
		assessment	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 candi- date). Language of assessment: German and/or English creditable for bonus									
	Referred to	in LPO I	§ 22	22 II Nr. 3 b)									
10-I-LOG-152-m01	Logic for in	formatics											
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Courses		V (2) ·	⊦Ü (2)									
	Method of a	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 candi- date). Language of assessment: German and/or English creditable for bonus									
	Referred to	in LPO I	§ 22	Nr. 3 b)									
10-I-KT-152-m01	Computatio	onal Complex	kity										
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Courses		V (2) ·	+ Ü (2)	· · · · · ·								
	Method of a	assessment in LPO I	If ann of one date). Langu credit	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus § 22 II Nr. 3 b)									

10-I-KD-152-m01	Cryp	tography	and Data	Securi	ty								
	ECTS	5 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Cour	ses	•	V (2) -	+ Ü (2)			•					
	Meth	nod of ass	essment		written examination (approx. 60 to 120 minutes).								
				date).									
					Language of assessment: German and/or English								
					creditable for bonus								
		rred to in	-		22 II Nr. 3 b)								
10-I-SEM1-152-m01					omputer Science 1								
	ECTS	5 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Cour	ses		S (2)									
	Meth	nod of ass	essment	pic fro	written elaboration (approx. 10 to 15 pages) and presentation (approx. 30 to 45 minutes) with subsequent discussion on a to- bic from the field of computer science _anguage of assessment: German and/or English								
	Refe	rred to in	LPO I	§ 22	l Nr. 3 b)								
10-I-PV-152-m01	Proje	ect Preser	tation										
	ECTS	5 5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Cour	ses		S (5)									
	Meth	nod of ass	essment	ter sci	presentation of a project developed by the candidate analogous to a presentation for laypersons with a knowledge of compu- ter science at a trade fair as well as discussion (approx. 10 to 15 minutes total) Language of assessment: German and/or English								
	Refe	rred to in	LPO I	§ 22	l Nr. 3 b)								
10-I=AA-152-m01	Adva	nced Auto	omation										
	ECTS	5 8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Cour	ses		V (4) -	+ Ü (2)								
	Meth	nod of ass	essment	written examination (approx. 60 to 120 minutes) creditable for bonus									
	Addi	tional Info	ormation		Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT,IS,ES,LR,GE								
	Refe	rred to in	LPO I	§ 22	Nr. 3 b)								

10-l=R01-152-m01	Robot	ics 1											
	ECTS	8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Cours	es		V (4) +	+ Ü (2)								
	Metho	od of asso	essment		itten examination (approx. 60 to 90 minutes) editable for bonus								
	Addit	onal Info	rmation		Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): S,ES,LR,HCI								
	Referr	ed to in L	.PO I	§ 22	22 ll Nr. 3 b)								
10-l=RO2-152-m01	Robot	ics 2											
	ECTS	8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Cours	es		V (4) +	+ Ü (2)								
	Metho	od of asso	essment		n examination (app able for bonus	rox. 60 to 90 minutes	5)						
	Addit	onal Info	rmation	Focus	es available for stud	dents of the Master's	programme Informatik (Comp	uter Science, 12	o ECTS credits): IT, ES, LR				
	Referr	ed to in L	PO I	§ 22	22 II Nr. 3 b)								
10-I=AGIS-161-m01	Algor	ithms for	Geograp	hic Info	ic Information Systems								
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Cours	es	-	V (2) +	+ Ü (2)								
	Metho	od of asso	essment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus									
	Additi	onal Info	rmation		Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,IS,HCI								
10-l=AG-161-m01		utationa	Geomet	ry				<u>.</u>					
	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Cours			V (2) -									
	Metho	od of asso	essment	If ann of one date). Langu credit	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus								
	Additi	onal Info	rmation	Focus AT,HC		dents of the Master's	programme Informatik (Comp	uter Science, 12	o ECTS credits):				

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10-I=APA-161-m01	Approx	imation	Algorith	ms									
	ECTS	5	Duratio	n	1 semester	Method of grading numeric	al grade	Modul level	graduate				
	Course	S		V (2)	/ (2) + Ü (2)								
	Methoo	d of asso		If ann of on date) Langu credit	vritten examination (approx. 60 to 120 minutes). f announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- late). anguage of assessment: German and/or English reditable for bonus								
				AT,IT,	cuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT,GE								
	Referre		-	§ 22	22 ll Nr. 3 b)								
10-I=AUT-161-m01	Automa		· ·		1								
		5	Duratio		1 semester	Method of grading numeric	al grade	Modul level	graduate				
	Course				(2) + Ü (2)								
	Method	1 OF ASS	essment	lf ann of on date) Langu	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus								
	Additio	nal Info	rmation	Focus	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	ms										
	ECTS	5	Duratio		1 semester	Method of grading numeric	al 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 candi- date). Language of assessment: German and/or English creditable for bonus									
	Additio	nal Info	rmation	Focus ES,LR	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): ES,LR								

10-I=BER-161-m01	Compu	Itability	Theory		_							
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	!	Modul level	graduate			
	Course	!S		V (2)	+ Ü (2)							
	Methoo	d of ass	essment	lf anr of on 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 candi- late). anguage of assessment: German and/or English reditable for bonus							
10-I=CB-161-m01	Additio	onal Info	ormation		ses available for st E,IT,IS,GE	udents of the Master's programme Infor	matik (Compu	ter Science, 120	o ECTS credits):			
	Compil	ler Cons	struction									
	ECTS	5	Duratio		1 semester	Method of grading numerical grade		Modul level	graduate			
	Course	!S		V (2)	2) + Ü (2)							
				of on date) Langu credit	Language of assessment: German and/or English creditable for bonus							
	Additic	onal Info	ormation		Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE,IT,IS,GE							
10-I=DDB-161-m01	Deduct	tive Dat	abases									
	ECTS	8	Duratio		1 semester	Method of grading numerical grade		Modul level	graduate			
	Course	:S		V (4)	+ Ü (2)							
	Methoo	d of ass	essment	lf anr of on date) Langu	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus							
	Additio	onal Info	ormation		Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,SE,IT,IS							

10-I=EL-161-m01	E-Learı	ning							-			
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es		V (2)	+ Ü (2)							
	Metho	d of ass	essment	If ann of on date) Langu	written examination (approx. 60 to 120 minutes). f announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus							
					ses available for st IS,HCI,GE	udents of the Master's	programme Informatik ((Computer Science, 120	c ECTS credits):			
10-l=ES-161-m01	Embed	ded Sys	stems									
	ECTS	8	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es		V (4) ·	4) + Ü (2)							
				If ann of on date) Langu credit	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,ES,LR,GE							
10-I=PA-161-m01	Analys	is and [Design of	rograms								
	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course			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 candi- date). Language of assessment: German and/or English creditable for bonus								
	Additio	onal Info	ormation		Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE,IS,ES,GE							

10-l=IR-161-m01	Informa	ation Re	trieval								
	ECTS	5	Duration	ก	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	s		V (2) ·	+ Ü (2)						
	Methoo	1 of ass	essment	lf ann of one date). Langu	Language of assessment: German and/or English creditable for bonus						
	Additional Information				ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): ,IS,HCI,GE						
10-I=KT2-161-m01	Compu	tationa	l Complex	city II							
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	-			(2) + Ü (2)						
	Method	1 01 855	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 examinati of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per cand date). 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, SE, IT, ES							
10-I=Kl1-161-m01	Artificial Intelligence 1										
	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	S		V (2) ·	+ Ü (2)						
	Methoc	1 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 candi- date). Language of assessment: German and/or English creditable for bonus							
	Additio	nal Info	ormation		es available for stu ,IS,HCI	idents of the Master's	programme Informatik	(Computer Science, 120) ECTS credits):		

10-l=Kl2-161-m01	Artificia	al Intell	igence 2		,	,						
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (2)	+ Ü (2)	•		÷				
	Method	l of ass	essment	If ann of on date) Langu	Language of assessment: German and/or English creditable for bonus							
			ormation	AT,SE	ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): T,SE,IS,HCI,GE							
10-I=LVS-161-m01	Perforn	nance E	valuation	of Dis	tributed Systems							
	ECTS	8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			V (4) ·	4) + Ü (2)							
	Method of assessment			of on date) Langu credit	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,GE								
10-I=ML-161-m01	Mather	natical	Logic									
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	s		V (2) ·	V (2) + Ü (2)							
	Methoo	l of ass	essment	lf ann of on date) Langu	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). 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,SE,IS,ES								

10-I=MI-161-m01	Medica	ıl Inforn	natics								
	ECTS	5	Duration	ก	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V (2) ·	+ Ü (2)						
	Methoo	l of ass	essment	lf ann of one date). Langu	Language of assessment: German and/or English creditable for bonus						
			-	SE,IT,	ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE,IT,IS,HCI,GE						
10-I=PEB-161-m01		nance E	ngineerin	ig & Be	enchmarking of Co						
	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			V (2) ·	2) + Ü (2)						
	Method of assessment			of one date). Langu credit	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,IT,ES,HCI,GE						
10-I=RAM-161-m01	Compu	ter Arit	hmetic								
	ECTS	5	Duration	ก	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V (2) ·	+ Ü (2)						
	Methoc	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 candi- date). 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,ES							

10-I=ST-161-m01	Discrete E	vent Simulati	on							
	ECTS 8	Duratio	n 1 sem	ester	Method of grading numeri	al grade	Modul level	graduate		
	Courses	,	V (4) + Ü (2)							
	Method of	fassessment	If announced of one candi date). Language of	written examination (approx. 60 to 120 minutes). f announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). .anguage of assessment: German and/or English creditable for bonus						
	Additiona	l Information	Focuses ava IT,IS,ES,GE	ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): T,IS,ES,GE						
10-I=SAR-161-m01	Software	Architecture								
	ECTS 5	Duratio	n 1 sem	ester	Method of grading numerio	al grade	Modul level	graduate		
	Courses		V (2) + Ü (2)							
			written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus							
	Additiona	l Information	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE,IT,ES							
	Referred t	o in LPO I	§ 22 II Nr. 3 b)							
10-I=VG-161-m01	Visualizat	ion of Graphs								
	ECTS 5	Duratio	n 1 sem	ester	Method of grading numeri	al grade:	Modul level	graduate		
	Courses		V (2) + Ü (2)							
	Method of	fassessment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus							
	Additiona	l Information	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,IT,HCI,GE							
	Referred t	o in LPO I	§ 22 Nr. 3	b)						

10-I=PM-161-m01	Profess	sional P	roject Ma	nagen	nent						
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V (2)				•			
	Methoo	l of ass	essment	If ann of on date) Langu	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus						
	other p	rerequi	sites	Simu	ltaneous completion	n of module 10-I=PRJ	s recommended.				
	Additio	nal Info	ormation	Focus HCI.	ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE, IT, IS, ES, LR,						
10-I=AK-	Selected Topics in Software Engineering										
SE-161-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V (2)	+ Ü (2)						
	Method of assessment			If ann of on date) Langu	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). 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.							
10-I=AKIT-161-m01	Selecte	ed Topic	s in Inter	net Te	chnologies						
	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V (2)	+ Ü (2)						
	Methoo	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 candi- date). Language of assessment: German and/or English creditable for bonus							
	Additio	nal Info	rmation	Focus	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT.						

	D1 Selected 1	opics in Intel	lligent Systems						
	ECTS 5	Duratio	n 1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses		V (2) + Ü (2)		~				
	Method of	assessment	If announced by the le of one candidate each date).	nguage of assessment: German and/or English editable for bonus					
	Additional	Information	Focuses available for	students of the Master's programme Informatik (O	Computer Science, 120	DECTS credits): IS.			
10-I=A-	Selected 1	opics in Emb	edded Systems						
	ECTS 5	Duratio	n 1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses		/ (2) + Ü (2)						
			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 car date). Language of assessment: German and/or English creditable for bonus						
	A 1 1								
			Focuses available for	students of the Master's programme Informatik (C	Computer Science, 120	ECTS credits): ES.			
	Selected 1	opics in Aero	Focuses available for s						
	Selected IECTS5		Focuses available for some space Engineeringn1 semester	students of the Master's programme Informatik (C Method of grading numerical grade	Computer Science, 120	p ECTS credits): ES.			
10-I=AKL- R-161-m01	Selected 1ECTS5Courses	Topics in Aero Duratio	Focuses available for some seringospace Engineeringn1 semesterV (2) + Ü (2)	Method of grading numerical grade					
	Selected 1ECTS5Courses	opics in Aero	Focuses available for some constant of the second secon		Modul level	graduate replaced by an oral examination			

10-I=AKH-	Selected To	opics in HCI								
Cl-161-m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			+ Ü (2)						
				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	y S (2) or R (2) instead	l of U (2)				
	Method of	assessment		en examination (60 t			· · · · · · · · · · · · · · · · · · ·			
			date)							
			Langi	anguage of assessment: German and/or English						
				creditable for bonus						
			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): HCI.							
10-I=AKII-161-m01		opics in Com	omputer Science							
	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		V (2)	+ Ü (2)						
	Method of	assessment		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 one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-						
			date)							
			· ·	anguage of assessment: German and/or English						
				creditable for bonus						
10-I=SSD-161-m01	Spacecraft	Systems De	sign							
	ECTS 8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			+ Ü (2)						
				le taught in: English						
	Method of	assessment			prox. 60 to 120 minute	es)				
				uage of assessment table for bonus	: English					
	Fuen Tuter	ial familia C								
10-I-REP-152-m01		1		Staatsexamen		(Lundennie durche		
	ECTS 4	Duratio		2 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Courses		Ü (2)							
		assessment			vered in the state exa	mination				
	Referred to	in LPO I		II Nr. 2 f)						
			9 22	ll Nr. 3 b)						

10-l-lCG-152-m01	Intera	ctive Co	mputer Gi	raphics	aphics						
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Cours	es		V (2)	+ Ü (2)		•				
	Metho	od of ass	essment			rox. 60 to 120 minute					
									replaced by an oral examination		
				of on date)		oprox. 20 minutes) o	r an oral examination in group	s of 2 candidates	s (approx. 15 minutes per candi-		
						German and/or Eng	lish				
					creditable for bonus						
	Referr	red to in	LPO I	§ 22	§ 22 Nr. 3 b)						
10-I=A-	Selec	ted Topio	s in Algo	rithms	and Theory						
KAT-152-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			V (2) ·	+ Ü (2)						
	Metho	od of ass	essment			rox. 60 to 120 minute					
					If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-						
				date)		oprox. 20 minutes) o	ran oral examination in group	s of 2 candidates	s (approx. 15 minutes per canui-		
						German and/or Eng	lish				
				credit	able for bonus						
	Referred to in LPO I		§ 22	§ 22 II Nr. 3 b)							
06-HCI=BS-152-	Multi	modal Us	ser Interfa	ces							
m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Cours	es		V (2) + Ü (2)							
	Metho	od of ass	essment	presentation of project results							
				Language of assessment: German and/or English							
	Defer	red to in			s 22 ll Nr. 3 b)						
o6-HCI=Ein-			-	-	puter Interaction						
f-152-m01	ECTS	_	Duratio			Method of grading	numerical grade	Modul level	graduata		
	Cours		Duratio		1 semester + Ü (2)		lluillellcal glade	Modul level	graduate		
				• • •							
	Metho	od of ass	essment	presentation of project results Language of assessment: German and/or English							
					creditable for bonus						
	Referr	red to in	LPO I	§ 22	I Nr. 3 b)						

06-HCI=IS-152-	3D Use	r Interfa	ices				1			
m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	S		V (2) -	+ Ü (2)	· · ·				
	Method	d of ass	essment		ntation of project re					
						: German and/or English				
	Deferre	d to in L			creditable for bonus § 22 II Nr. 3 b)					
			-							
06-HCI=ST-152- m01	-		ractive Sy Duration		r	Method of grading numerical grade	Modul level	graduata		
	Course	5	Duration		1 semester + Ü (2)	Method of grading numerical grade	Modul level	graduate		
						roy (o to coo minutos)				
	Method	1 01 8550	essment			rox. 60 to 120 minutes) : German and/or English				
					able for bonus					
	Referre	d to in L	PO I	§ 22	3 22 Il Nr. 3 b)					
Focus Subject Com	puter Ma	athema	tics (30 E	CTS cre	edits)					
10-M=AAAN-161-	Applied	d Analys	sis							
mo1	ECTS 10 Duratio			n	1 semester	Method of grading numerical grade	Modul level	graduate		
	Courses			V (4) + Ü (2)						
					le taught in: Germa					
	Method	d 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 or English						
						ne semester in which the course is offered and	in the subsequent se	emester		
	-			creditable for bonus						
10-M=AAL- G-161-m01	-	in Algel	1			Mathead of suppling a numerical supple				
		10	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	S			+ Ü (2) le taught in: Germa	n and/or English				
	Method	d of ass	essment		-	pprox. 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 Assessment offered: In the semester in which the course is offered and in the subsequent semester						
					Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus					

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10-M=ADG-	Differe	ntial Ge	ometry							
M-161-m01	ECTS	10	Duratio	1	1 semester	Method of grading numerical grade	M	odul level	graduate	
	Course	S			+ Ü (2) ıle taught in: Germ	an and/or English				
	Metho	d of ass	essment	b) ora c) ora Lang Asses	written examination (approx. 90 to 120 minutes, usually chosen) or oral examination of one candidate each (approx. 20 minutes) or oral examination in groups (groups of 2, 15 minutes per candidate) inguage of assessment: German or English ssessment offered: In the semester in which the course is offered and in the subsequent semester editable for bonus					
10-M=AFT-	Comple	ex Analy	/sis							
H-161-m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	М	odul level	graduate	
	Courses				+ Ü (2) ıle taught in: Germ	an and/or English				
	Metho	d of ass	essment	b) ora c) ora Lang Asses) written examination (approx. 90 to 120 minutes, usually chosen) or) oral examination of one candidate each (approx. 20 minutes) or) oral examination in groups (groups of 2, 15 minutes per candidate) anguage of assessment: German or English ussessment offered: In the semester in which the course is offered and in the subsequent semester reditable for bonus					
10-M=AGMS-161-	Geome	Geometric Structures								
m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	М	odul 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 or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus					emester	
10-M=AIST-161-	Indust	rial Stat	istics 1							
m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	М	odul level	graduate	
	Course	S			V (4) + Ü (2) Module taught in: German and/or English					
	Method of assessment			b) ora c) ora Langi Asses	tten examination (approx. 90 to 120 minutes, usually chosen) or l examination of one candidate each (approx. 20 minutes) or l examination in groups (groups of 2, 15 minutes per candidate) lage of assessment: German or English Isment offered: In the semester in which the course is offered and in the subsequent semester able for bonus					

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10-M=ALTH-161-	Lie The	eory								
m01	ECTS	10	Duratio	ı	1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	S			+ Ü (2) Ile taught in: Germ	an and/or English				
	Methoo	d of ass	essment	b) ora c) ora Langu Asses) written examination (approx. 90 to 120 minutes, usually chosen) or) oral examination of one candidate each (approx. 20 minutes) or) oral examination in groups (groups of 2, 15 minutes per candidate) anguage of assessment: German or English ssessment offered: In the semester in which the course is offered and in the subsequent semester reditable for bonus					
10-M=ANG-	Numeri	ic of Lar	ge Syster	ns of E	quations					
G-161-m01	ECTS	10	Duratio	า	1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	S			+ Ü (2) Ile taught in: Germ	an and/or English				
	Methoo	d of ass	essment	b) ora c) ora Langu Asses) written examination (approx. 90 to 120 minutes, usually chosen) or) oral examination of one candidate each (approx. 20 minutes) or) oral examination in groups (groups of 2, 15 minutes per candidate) anguage of assessment: German or English sseessment offered: In the semester in which the course is offered and in the subsequent semester reditable for bonus					
10-M=AOP-	Basics	Basics in Optimization								
T-161-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						
	Methoo	d of ass	essment	b) ora c) ora Langu Asses	al examination of o l examination in g Jage of assessmen	(approx. 90 to 120 minutes, usually chosen) or one candidate each (approx. 20 minutes) or roups (groups of 2, 15 minutes per candidate) nt: German or English the semester in which the course is offered and i	n the subsequent s	emester		
10-M=ARTH-161-	Contro	l Theory	,							
m01	ECTS	10	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	S			+ Ü (2) Ile taught in: Germ	an and/or English				
	Methoo	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) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester 						

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10-M=ASM-	Stocha	stic Mo	dels of Ri	els of Risk Management					
R-161-m01	ECTS 10 Duration			า	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S			+ Ü (2) ıle taught in: Gern	nan and/or English			
	Method	l of ass	essment	b) ora c) ora Lange Asses	al examination of Il examination in g Jage of assessme	one candidate each (aj groups (groups of 2, 15 nt: German or English	utes, usually chosen) or oprox. 20 minutes) or minutes per candidate) the course is offered an		emester
10-M=AST-	Stocha	stical P	rocesses						
P-161-m01	ECTS	10	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses			Modu	_	nan and/or English			
	Method	l of ass	essment	b) ora c) ora Langi Asses	al examination of Il examination in g Jage of assessme	one candidate each (aj groups (groups of 2, 15 nt: German or English	utes, usually chosen) or oprox. 20 minutes) or minutes per candidate) the course is offered an		emester
10-M=A-	Topology								
TOP-161-m01	ECTS	10	Duration		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			b) ora c) ora Lang Asses	al examination of Il examination in g Jage of assessme	one candidate each (aj groups (groups of 2, 15 nt: German or English	utes, usually chosen) or oprox. 20 minutes) or minutes per candidate) the course is offered an		emester
10-M=AVS-	Insuran	ice Mat	hematics	1					
M-161-m01	ECTS	10	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S		V (4) + Ü (2) Module taught in: German and/or English					
	Method of assessment			b) ora c) ora Langi Asses	al examination of Il examination in g Jage of assessme	one candidate each (aj groups (groups of 2, 15 nt: German or English	utes, usually chosen) or oprox. 20 minutes) or minutes per candidate) the course is offered an		emester

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10-M=AZ-	Time S	eries Ar	alysis 1							
RA-161-m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	S			+ Ü (2) Ile taught in: Gerr	nan and/or English				
	Metho	d of ass	essment	b) ora c) ora Langu Asses	l examination of l examination in Jage of assessme	(approx. 90 to 120 minutes, usually chosen one candidate each (approx. 20 minutes) or groups (groups of 2, 15 minutes per candida nt: German or English the semester in which the course is offered	te)	emester		
10-M=AZTH-161-	Numbe	er Theor	y							
m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	S			+ Ü (2) Ile taught in: Gerr	nan and/or English				
	Metho	d of ass	essment	b) ora c) ora Langu Asses	l examination of l examination in g lage of assessme	(approx. 90 to 120 minutes, usually chosen one candidate each (approx. 20 minutes) or groups (groups of 2, 15 minutes per candida nt: German or English the semester in which the course is offered	te)	emester		
10-M=VA-	Selected Topics in Analysis									
NA-161-m01	ECTS 10 Duration			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 assessment			b) ora c) ora Langu Asses	l examination of l examination in g lage of assessme	(approx. 90 to 120 minutes, usually chosen one candidate each (approx. 20 minutes) or groups (groups of 2, 15 minutes per candida nt: German or English the semester in which the course is offered	te)	emester		
10-M=VAT-	Algebr	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						
	Metho	d of ass	essment	b) ora c) ora Langu Asses	l examination of l examination in g lage of assessme	(approx. 90 to 120 minutes, usually chosen one candidate each (approx. 20 minutes) or groups (groups of 2, 15 minutes per candida nt: German or English the semester in which the course is offered	te)	emester		

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10-M=VFN-	Selecte	ed Topio	s in Finar	ancial Mathematics						
M-161-m01	ECTS 10 Duration		n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S	-		+ Ü (2) ıle taught in: Germ	nan and/or English	· · · · ·			
	Metho	d of ass	essment	b) ora c) ora Langu Asses	al examination of c Il examination in g Jage of assessmer	(approx. 90 to 120 minutes, usually chosen) or one candidate each (approx. 20 minutes) or groups (groups of 2, 15 minutes per candidate) nt: German or English the semester in which the course is offered and	in the subsequent se	emester		
10-M=VGDS-161-	Groups	s and th	eir Repres	sentat	ions					
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				
	Metho	d of ass	essment	b) ora c) ora Langu Asses	al examination of c Il examination in g Jage of assessmer	(approx. 90 to 120 minutes, usually chosen) or one candidate each (approx. 20 minutes) or groups (groups of 2, 15 minutes per candidate) nt: German or English the semester in which the course is offered and	in the subsequent se	emester		
10-M=V-	Geometrical Mechanics									
GEM-161-m01	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 assessment			b) ora c) ora Langu Asses	al examination of c Il examination in g Jage of assessmer	(approx. 90 to 120 minutes, usually chosen) or one candidate each (approx. 20 minutes) or groups (groups of 2, 15 minutes per candidate) nt: German or English the semester in which the course is offered and	in the subsequent se	emester		
10-M=VIST-161-	Indust	rial Stat	tistics 2							
m01	ECTS	10	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	S		V (4) + Ü (2) Module taught in: German and/or English						
	Metho	d of ass	essment	b) ora c) ora Langu Asses	al examination of c Il examination in g Jage of assessmer	(approx. 90 to 120 minutes, usually chosen) or one candidate each (approx. 20 minutes) or groups (groups of 2, 15 minutes per candidate) nt: German or English the semester in which the course is offered and	in the subsequent s	emester		

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10-M=V-	Field A	Field Arithmetics										
KAR-161-m01	ECTS	ECTS 10 Duration			1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S			+ Ü (2)							
						nan and/or English		_				
	Metho	d of ass	essment	b) ora c) ora Langu Asses	al examination of a l examination in g uage of assessme	(approx. 90 to 120 minutes, usually chosen) or one candidate each (approx. 20 minutes) or groups (groups of 2, 15 minutes per candidate) nt: German or English the semester in which the course is offered and i	n the subsequent s	emester				
10-M=VN-	Numer	ic of Pa	rtial Diffe	rential	Equations							
PE-161-m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	!S	_		+ Ü (2) Ile taught in: Germ	nan and/or English						
	Metho	d of ass	essment	b) ora c) ora Langu Asses	al examination of o l examination in g Jage of assessme	(approx. 90 to 120 minutes, usually chosen) or one candidate each (approx. 20 minutes) or groups (groups of 2, 15 minutes per candidate) nt: German or English the semester in which the course is offered and i	n the subsequent s	emester				
10-M=VOP-	Select	ed Topic	s in Opti	ptimization								
T-161-m01	ECTS 10 Duration			1	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			b) ora c) ora Langu Asses	al examination of a l examination in g uage of assessme	(approx. 90 to 120 minutes, usually chosen) or one candidate each (approx. 20 minutes) or groups (groups of 2, 15 minutes per candidate) nt: German or English the semester in which the course is offered and i	n the subsequent s	emester				
10-M=V-	Statist	ical Ana	alysis									
STA-161-m01	ECTS	10	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	!S		V (4) + Ü (2) Module taught in: German and/or English								
	Metho	d of ass	essment	b) ora c) ora Langu Asses	al examination of l examination in g Jage of assessme	(approx. 90 to 120 minutes, usually chosen) or one candidate each (approx. 20 minutes) or groups (groups of 2, 15 minutes per candidate) nt: German or English the semester in which the course is offered and i	n the subsequent s	emester				

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10-M=VVS-	Insurar	nce Mat	hematics	2					
M-161-m01	ECTS 10 Duration			า	1 semester	Method of grading	numerical grade	Modul level	graduate
	Course	S			+ Ü (2) ıle taught in: Gern	nan and/or English			
	Methoo	l of ass	essment	b) ora c) ora Langu Asses	al examination of Il examination in g Jage of assessme	one candidate each (ap groups (groups of 2, 15 nt: German or English	minutes per candidate)		emester
10-M=VZ-	Time S	eries Aı	nalysis 2						
RA-161-m01	ECTS	10	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate
	Course	S			+ Ü (2) ıle taught in: Gern	nan and/or English			
	Methoc	l of ass	essment	b) ora c) ora Langu Asses	al examination of I examination in g Jage of assessme	one candidate each (ap groups (groups of 2, 15 nt: German or English	minutes per candidate)		emester
10-M=V-	Discrete Mathematics								
DIM-161-m01	ECTS 5 Duration			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			b) ora c) ora Langu Asses	al examination of I examination in g Jage of assessme	one candidate each (ap groups (groups of 2, ap nt: German or English	oprox. 15 minutes) or prox. 10 minutes per ca		emester
10-M=VD-	Dynam		stems						
SY-161-m01	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate
	Course	S		V (3) + Ü (1) Module taught in: German and/or English					
	Method of assessment			b) ora c) ora Langu Asses	al examination of I examination in g Jage of assessme	one candidate each (ap groups (groups of 2, ap nt: German or English	prox. 10 minutes per ca		emester

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10-M=V-	Aspect	Aspects of Geometry											
GEO-161-m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul leve	graduate					
	Course	S		V (3) + Modu		nan and/or English							
	Metho	d of ass	essment	a) writ b) ora c) oral Langu Asses	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) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus								
10-M=V-	Mathe	matical	Continuu	m Mecl	hanics								
KOM-161-m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul leve	graduate					
	Course	S	<u> </u>	V (3) + Modu		nan and/or English							
	Metho	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) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus									
10-M=VMB-	Mathe	matical	Imaging	ging									
V-161-m01	ECTS 5 Duratio			n	1 semester	Method of grading numerical grade	Modul leve	graduate					
	Courses			V (3) + Ü (1) Module taught in: German and/or English									
	Method of assessment			b) ora c) oral Langu Asses	l examination of l examination in § age of assessme	(approx. 60 to 90 minutes, usually chosen) one candidate each (approx. 15 minutes) or groups (groups of 2, approx. 10 minutes per nt: German or English the semester in which the course is offered	, r candidate)	semester					
10-M=VMPH-161-	Selecte	ed Topic	s in Math	ematic	al Physics								
m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul leve	graduate					
	Course	S	-	V (4) + Ü (2) Module taught in: German and/or English									
	Metho	d of ass	essment	b) ora c) oral Langu Asses	l examination of l examination in g age of assessme	(approx. 90 to 120 minutes, usually choser one candidate each (approx. 20 minutes) o groups (groups of 2, 15 minutes per candida nt: German or English the semester in which the course is offered	r ate)	semester					

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10-M=V-	Selected Topics in Control Theory											
TRT-161-m01	ECTS	ECTS 10 Duration		n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			V (4) + Ü (2) Module taught in: German and/or English							
	Methoo	l of ass	essment	b) ora c) ora Langu Asses)) written examination (approx. 90 to 120 minutes, usually chosen) or)) oral examination of one candidate each (approx. 20 minutes) or)) oral examination in groups (groups of 2, 15 minutes per candidate) anguage of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester reditable for bonus							
10-M=VI-	Inverse	Proble	ems									
PR-161-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (3) - Modu		nan and/or English						
	Methoo	d of ass	essment	b) ora c) ora Langu Asses	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) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus							
10-M=VMT-	Module	Module Theory										
H-161-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	Courses			V (3) + Ü (1) Module taught in: German and/or English							
	Methoo	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) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus					emester			
10-M=V-	Non-lin	ear An	alysis									
NAN-161-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			V (3) + Ü (1) Module taught in: German and/or English							
	Methoo	l of ass	essment	b) ora c) ora Langu Asses	itten examination (approx. 60 to 90 minutes, usually chosen) or al examination of one candidate each (approx. 15 minutes) or al examination in groups (groups of 2, approx. 10 minutes per candidate) uage of assessment: German or English ssment offered: In the semester in which the course is offered and in the subsequent semester table for bonus							

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10-M=VOST-161-	Optimal Control										
m01	ECTS	5	Duration	า	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S			V (3) + Ü (1) Module taught in: German and/or English						
	Methoo	l of asso	essment	b) ora c) ora Langu Asses	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) .anguage of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus						
10-M=VV-	Networ	ked Sys	stems								
SY-161-m01	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		V (3) Modu		an and/or English					
	Methoc	l of asso	essment	b) ora c) ora Langu Asses	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) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus						
10-M=VK-	Complex Geometry										
GE-161-m01	ECTS	10	Duration	า	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		V (4) + Ü (2) Module taught in: German and/or English							
	Methoo	d 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 or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus							
10-M=VPD-	Partial	Differer	ntial Equa	tions	of Mathematical P	hysics					
P-161-m01	ECTS	10	Duration	า	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		V (4) + Ü (2) Module taught in: German and/or English							
	Methoo	l of asso	essment	b) ora c) ora Langu Asses	l examination of c l examination in g Jage of assessmer	xamination (approx. 90 to 120 minutes, usually chosen) or mination of one candidate each (approx. 20 minutes) or nination in groups (groups of 2, 15 minutes per candidate) of assessment: German or English It offered: In the semester in which the course is offered and in the subsequent semester for bonus					

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10-M=V-	Pseudo Riemannian and Riemannian Geometry										
PRG-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						
	Metho	d of ass	sessment	b) ora c) ora 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) anguage of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus						
10-M=AF-	Functio	onal An	alysis								
AN-161-m01	ECTS	10	Duratio	n	1 semester	Method of grading	g numerical grade	Modul level	graduate		
	Course	es.			+ Ü (2) lle taught in: Germ	an and/or English					
	Metho	d of ass	sessment	 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 Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus 							
10-M=VAD-	Applied Differential Geometry										
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							
	Metho	d of ass	sessment	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 Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus							
10-M=MP1-161-	Analys	is and	Geometry	of Classical Systems							
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						
	Metho	d of ass	essment	b) ora c) ora Langu	ll examination of o l examination in g	ne candidate each (a	nutes, usually chosen) pprox. 20 minutes) or minutes per candidate				

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10-M=MP2-161-	Algebra and Dynamics of Quantum Systems											
m01	ECTS	10	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			V (4) + Ü (2) Module taught in: German and/or English							
	Methoc	l of asse	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=GAL-	Research in Groups - Algebra											
G-161-m01	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	l of asse	essment	Langi	talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester							
10-M=G-	Research in Groups - Discrete Mathematics											
DIM-161-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			V (2) + S (2) Module taught in: German and/or English								
	Method	l of asse	essment	talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester								
10-M=GD-	Resear	ch in Gr	oups - Dy	namic	al Systems and Con	trol Theory						
SC-161-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (2) + S (2) Module taught in: German and/or English								
	Methoo	l of asse	essment	talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester								
10-M=G-	Resear	ch in Gr	oups - Co	mplex Analysis								
COA-161-m01	ECTS	10	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			V (2) + S (2) Module taught in: German and/or English							
	Methoo	l of asse	essment	talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester								

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10-M=GGM-	Research in Groups - Geometry and Topology											
T-161-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	2S			V (2) + S (2) Module taught in: German and/or English							
	Metho	d of ass	essment	Lang	talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester							
10-M=GM-	Research in Groups - Mathematics in Context											
CX-161-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es		· · ·	+ S (2) Jle taught in: German	n and/or English		·				
	Metho	d of ass	essment	Lang	alk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester							
10-M=GM-	Resea											
SC-161-m01	ECTS	10	Duratio	n	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			Lang	talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester							
10-M=G-	Research in Groups - Measure and Integral											
MAI-161-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es		V (2) + S (2) Module taught in: German and/or English								
	Metho	d of ass	essment	Lang	talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester							
10-M=GN-	Resea	r <mark>ch in</mark> Gi	roups - Nu	ımeric	al Mathematics and	Applied Analysis						
MA-161-m01	ECTS	10	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	25			V (2) + S (2) Module taught in: German and/or English							
	Metho	d of ass	essment	talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester								

10-M=GROC-161-	Research in Groups - Robotics, Optimization and Control Theory											
m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es			V (2) + S (2)							
					ule taught in: German	n and/or English						
	Metho	d of ass	essment		60 to 120 minutes)							
					uage of assessment:		the course is offered and i	n the subsequent se	emester			
10-M=GT-	Resear	rch in G	rouns - Ti		ries Analysis			in the subsequent se				
SA-161-m01	ECTS	10	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course		Duratio		+ S (2)				3.44440			
				· · ·	ule taught in: Germai	n and/or English						
	Metho	d of ass	essment		60 to 120 minutes)							
					Language of assessment: German or English							
10 M-C	Deces	rah in Ci			Assessment offered: In the semester in which the course is offered and in the subsequent semester							
10-M=G- STA-161-m01	ECTS	10	roups - St		ï		u u u a di a di a di a di a					
			Duratio		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				60 to 120 minutes)							
					Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester							
10-M=GNTH-161-	Research in Groups - Number Theory											
m01	ECTS	10	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course		Duratio		V(2) + S(2)							
	course			Module taught in: German and/or English								
	Metho	d of ass	essment	talk (60 to 120 minutes)								
				Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester								
10-M=GC-	Bacan	rch in Cu	iouna Ca				the course is offered and i	n the subsequent se	emester			
QS-161-m01	ECTS	10	Duratio		trol Theory of Quantum Mechanical Systems 1 semester Method of grading numerical grade Modul level graduate							
Qo loi moi			Duratio		1 semester + S (2)	Method of grading	numerical grade	Modul level	graduate			
	Course	25			+ 5 (2) ule taught in: Germai	n and/or English						
	Metho	d of ass	essment	talk (60 to 120 minutes)							
					uage of assessment:							
				Asses	ssment offered: In th	e semester in which	the course is offered and i	n the subsequent se	emester			

10-M=GD-	Research in Groups - Differential Geometry											
GE-161-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es			V (2) + S (2) Module taught in: German and/or English							
	Metho	d of ass	essment	Lang	talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester							
10-M=GDF-	Resea											
Q-161-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es		· · ·	+ S (2) Ile taught in: Germar	n and/or English						
	Metho	d of ass	essment	Lang	alk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester							
10-M=GN-	Research in Groups - Non-linear Analysis											
LA-161-m01	ECTS	10	Duratio	n	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			Lang	talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester							
10-M=GO-	Research in Groups - Operator Algebras											
PA-161-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es		V (2) + S (2) Module taught in: German and/or English								
	Metho	d of ass	essment	talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester								
10-M=SAD-	Semin	ar in Ap	plied Diffe	erentia	al Geometry							
G-161-m01	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	25			S (2) Module taught in: German and/or English							
	Metho	d of ass	essment	talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester								

10-M=SAL-	Seminar in Algebra												
G-161-m01	ECTS 5	CTS 5 Duration		n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		_	S (2)									
					ile taught in: Germa	an and/or English							
	Method o	ofass	essment	talk (60 to 120 minutes)									
				Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester									
10-M=SD-	Seminar	in Dvı	namical S		stems and Control								
SC-161-m01	ECTS 5 Duratio			<u> </u>	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses				S (2)								
				Module taught in: German and/or English									
	Method of	ofass	essment	talk (60 to 120 minutes)									
				Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester									
10-M=S-	Seminar in Complex Analysis												
COA-161-m01	ECTS 5 Duratio				1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	- -	J	S (2)									
				Module taught in: German and/or English									
	Method of	ofass	essment	talk (60 to 120 minutes)									
				Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester									
10-M=S- FIM-161-m01	Seminar in Financial and Insurance Mathematics												
	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	ofass	essment	talk (60 to 120 minutes)									
				Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester									
10-M=S-	Seminar in Geometry and Topology												
GTO-161-mo1	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	ofass	essment	talk (60 to 120 minutes)									
						t: German or English	· · · · · · · · · · · · · · · · · · ·	und ter alle an ender an ender					
				Assessment offered: In the semester in which the course is offered and in the subsequent semester									

10-M=SID-	Interdisciplinary Seminar													
C-161-m01	ECTS	ECTS 5 Duration			1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	S		S (2) Modu	S (2) Module taught in: German and/or English									
	Method	d of ass	essment	talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester										
10-M=SM- SC-161-m01	Semina	Seminar Mathematics in the Sciences												
	ECTS 5 Duration			n	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	S		S (2) Module taught in: German and/or English										
	Methoo	d of ass	essment	talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester										
10-M=SN-	Seminar in Numerical Mathematics and Applied Analysis													
MA-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	d of ass	essment	talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester										
10-M=SOP-	Seminar in Optimization													
T-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										
	Methoo	d of ass	essment	talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester										
10-M=S-	Seminar in Statistics													
STA-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	d of ass	essment	talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester										

10-M=SN-	Semina	Seminar in Non-linear Analysis											
LA-161-m01	ECTS	ECTS 5 Duration		n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	25		S (2) Modi									
	Metho	d of ass	essment	Lang	talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester								
10-M=AGP-	Giovan	Giovanni Prodi Lecture (Master)											
C-161-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	es		V (3) + Ü (1) Module taught in: German and/or English									
	Metho	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) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus 									
10-M=VG-	Giovan	ni Prod	i Lecture S	Select	ed Topics (Master)								
PS-161-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	es		V (4) + Ü (2) Module taught in: German and/or English									
	Metho	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) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus									
10-M=VG-	Giovan	ni Prod	i Lecture /	Advan	ced Topics (Master))							
PA-161-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	25		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 or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus									

10-M=VGPM-161-	Giovanni Prodi Lecture Modern Topics (Master)									
m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Course	es			V (4) + Ü (2) Module taught in: German and/or English					
	Metho	od of ass	essment	b) ora c) ora 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 or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus					
10-M=SGP-	Giova	nni Prod	i Seminar	(Mast	er)					
C-161-m01	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses			S (2) Modu	le taught in: Gern	nan and/or English				
	Method of assessment			talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester						
Focus Subject Com	puter P	hysics (30 ECTS c	redits)						
11-SSC-172-m01	Surface Science									
	ECTS	6	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate	
	Course	es		V (3) + R (1) Module taught in: English						
	Method of assessment			b) ora c) ora d) pro e) pre If a wi form o the le Langu	Module taught in: English 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 Assessment offered: In the semester in which the course is offered and in the subsequent semester					

11-BSV-161-m01	Image	and Sig	gnal Proces	ssing i	n Physics					
	ECTS	6	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Course	!S			V (2) + Ü (2) Module taught in: German or English					
	Metho	d of ass		b) ora c) ora d) pro e) pre lf a wr form o the le Langu	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 Assessment offered: In the semester in which the course is offered and in the subsequent semester					
11-QUI-161-m01	Quanti	um Info	rmation Te	echnol	ogy					
	ECTS	6	Duratior	۱	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Course	!S		V (3) + Modu	+ R (1) lle taught in: Germ	ian or English				
	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 insform 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. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester 					ethod of assessment is changed, date at the latest.	
11-PMM-161-m01		-	vanced Ma		j					
	ECTS	6	Duratior		1 semester	Method of grading	numerical grade	Modul level	graduate	
	Course	- 1		V (3) + R (1) Module taught in: German or English						
	Metho	d of ass		b) ora c) ora d) pro e) pre lf a wr form o the le Langu	Il examination of c l examination in g oject report (appro esentation/talk (ap ritten examination of an oral examina cturer must inforn uage of assessmer	ation of one candidate n students about this b nt: German and/or Eng	oprox. 30 minutes) or prox. 30 minutes per c od of assessment, this each or an oral examir by four weeks prior to t lish	may be changed and ass		

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11-SPI-161-m01	Spintr	onics							
	ECTS	6	Duratior	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		 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 t form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is 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-FK2-161-m01	Solid S	State Ph	ysics 2						
	ECTS	8	Duratior	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Course	es		V (4) + R (2) Module taught in: Ger	man or English				
	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 assessiform 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 Language of assessment: German and/or English 				ethod of assessment is changed, late at the latest.	
11-FKS-161-m01			ectrocopy			1	1		
	ECTS	6	Duratior		Method of grading	numerical grade	Modul level	graduate	
	Course	es		V (3) + R (1) Module taught in: German or English					
	Metho	d of ass		 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 Assessment offered: In the semester in which the course is offered and in the subsequent semester 					

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11-MAG-161-m01	Magnetism										
	ECTS 6 Duration			1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (3) + R (1) Module taught in: Gern	nan or English						
	Metho	d of ass		 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 ta form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is 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-HLPH-161-m01			or Physics								
	ECTS	6	Duration		Method of grading	numerical grade	Modul level	graduate			
	Course	!S		V (3) + R (1) Module taught in: Gern	nan or English						
	Method of assessment			a) written examination b) oral examination of (c) oral examination in (g) d) project report (appro- e) presentation/talk (a) If a written examination form of an oral examina- the lecturer must inforr Language of assessme Assessment offered: In							
11-HNS-161-m01		-		miconductor Nanostruc							
	ECTS	6	Duratior		Method of grading	numerical grade	Modul level	graduate			
	Course	es.		V (3) + R (1) Module taught in: German or English							
	Metho	d of ass		 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 Assessment offered: In the semester in which the course is offered and in the subsequent semester 							

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11-QTH-161-m01	Quanti	um Trar	isport						
	ECTS	6	Duration	1 semester	Method of grading numerical grade	e Modul level	graduate		
	Course	S		V (3) + R (1) Module taught in: German or English					
				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). f a written examination was chosen as method of assessment, this may be changed and assessment may instead take th 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. anguage of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester					
11-ASM-161-m01	Metho		bservation	al Astronomy					
	ECTS	6	Duration	1 semester	Method of grading numerical grade	e Modul level	graduate		
	Course	S		V (3) + R (1) Module taught in: Germ	an or English				
	Metho		Sessinent						
11-TPE-161-m01	-	1	Particle Ph	•					
	ECTS	6	Duratior		Method of grading numerical grade	e Modul level	graduate		
	Course	2S		V (3) + R (1) Module taught in: German or English					
	Metho	d of ass	sessment	b) oral examination of c c) oral examination in g d) project report (appro e) presentation/talk (ap If a written examination form of an oral examina- the lecturer must inform Language of assessment		per candidate) or , this may be changed and a xamination in groups. If the or to the original examinatio	method of assessment is changed, n date at the latest.		

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11-ASP-161-m01	Introduction to Space Physics										
	ECTS 6 Duration			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		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 Assessment offered: In the semester in which the course is offered and in the subsequent semester							
11-MAS-161-m01	Multi-	wavelen	gth Astror	nomy							
	ECTS	6	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es		V (3) + R (1) Module taught in: Ge	rman or English						
				 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 inster 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. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester 							
11-QM2-161-m01	-		hanics II				1				
	ECTS	8	Duration		Method of grading	numerical grade	Modul level	undergraduate			
	Course	25		V (4) + R (2) Module taught in: German or English							
	Metho	d of ass		 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 Assessment offered: In the semester in which the course is offered and in the subsequent semester 							

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11-RTT-161-m01	Theory	of Rela	tivity						
	ECTS	6	Duratior	1 semester	Method of grading numerical gra	ade Mod	ul level	graduate	
	Course	S		V (3) + R (1) Module taught in: German or English					
	Metho	d of ass		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 Assessment offered: In the semester in which the course is offered and in the subsequent semester					
11-QVTP-161-m01			antum Th	eory					
	ECTS	8	Duratior	1 semester	Method of grading numerical grading	ade Mod	ul level	graduate	
	Course	S		V (4) + R (2) Module taught in: Germ	an or English				
				form of an oral examina the lecturer must inform Language of assessment Assessment offered: In					
11-PKS-161-m01	-	-	nplex Syst						
	ECTS	6	Duratior		Method of grading numerical grading	ade Mod	ul level	graduate	
	Course	S		V (2) + R (2) Module taught in: German or English					
	Methoo	d of ass		b) oral examination of c c) oral examination in g d) project report (appro e) presentation/talk (ap If a written examination form of an oral examina- the lecturer must inform Language of assessment		tes per candidate) or ent, this may be changed l examination in groups prior to the original exam	i. If the m	ethod of assessment is changed, date at the latest.	

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11-QIC-161-m01	Quantu	um Info	rmation a	nd Qua	ntum Computing				
	ECTS	6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate
	Course	S			+ R (1) Ile taught in: Germ	nan or English			
	Methoo	d of ass	essment	 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 Assessment offered: In the semester in which the course is offered and in the subsequent semester 					ethod of assessment is changed, date at the latest.
	Modules successfully completed			11-QM2 or 11-TFK					
11-TFK-161-m01	Theore	tical So	lid State	Physics					
	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 of assessment			Module taught in: German or Englisha) written examination (approx. 90 to 120 minutes) orb) oral examination of one candidate each (approx. 30 minutes) orc) oral examination in groups (groups of 2, approx. 30 minutes per candidate) ord) project report (approx. 8 to 10 pages) ore) presentation/talk (approx. 30 minutes).If a written examination was chosen as method of assessment, this may be changed and assessment may instead take theform 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 EnglishAssessment offered: In the semester in which the course is offered and in the subsequent semester					

	Theore	tical So	lid State F	hysics	2						
	ECTS	8	Duration	ı 🔤	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S			V (4) + R (2) Module taught in: German or English						
	Metho	d of ass		 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 Assessment offered: In the semester in which the course is offered and in the subsequent semester 							
11-FTFK-161-m01	Field T	heory ir	Solid Sta	te Phys	sics						
	ECTS	8	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V (4) + Module	R (2) e taught in: Germ	an or English					
				 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 Assessment offered: In the semester in which the course is offered and in the subsequent semester 							
11-TOPO-161-m01		gical Or									
	ECTS Course	6 es		n 1 semester Method of grading numerical grade Modul level graduate V (3) + R (1) Module taught in: German or English							
	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 Assessment offered: In the semester in which the course is offered and in the subsequent semester 							

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	Topolo	gy in S	olid State	Physics					
E	ECTS	6	Duratior	1 semester		Method of grading	numerical grade	Modul level	graduate
	Course	!S		V (3) + R (1) Module taught in:	Germa	an or English			
	Metho	d of ass		 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 Assessment offered: In the semester in which the course is offered and in the subsequent semester 					
11-TSL-161-m01	Theory	of Sup	erconduct					· · · · ·	
	ECTS	6	Duratior	1 semester		Method of grading	numerical grade	Modul level	graduate
	Course	!S		V (3) + R (1) Module taught in:	Germa	an or English			
	Metho	a or ass		 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 form of an oral examination of one candidate each or an oral examination in groups. If the method of a the lecturer must inform students about this by four weeks prior to the original examination date at th Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester 				nethod of assessment is changed, date at the latest.	
11-CMS-161-m01				s Science (DFT)					
	ECTS	8	Duratior			Method of grading	numerical grade	Modul level	graduate
	Course	:S		V (4) + R (2) Module taught in: German or English					
	Metho	d of ass		 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 Assessment offered: In the semester in which the course is offered and in the subsequent semester 					

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11-KFT-161-m01	Confor	mal Fie	ld Theory							
	ECTS	6	Duratior	1 semester	Method of grading numerical g	grade I	Modul level	graduate		
	Course	es		V (3) + R (1) Module taught in: German or English						
	Metho	d of ass		b) oral examination of c c) oral examination in g d) project report (appro e) presentation/talk (ap If a written examination form of an oral examina- the lecturer must inform Language 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 Assessment offered: In the semester in which the course is offered and in the subsequent semester					
11-KFT2-161-m01	L		ld Theory :							
	ECTS	6	Duratior		Method of grading numerical g	grade I	Nodul level	graduate		
	Course	25		V (3) + R (1) Module taught in: Germ	an or English					
	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 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-MSF-161-m01			d Spin Flu							
	ECTS	6	Duratior		Method of grading numerical g	rade I	Nodul level	graduate		
	Course	es		V (3) + R (1) Module taught in: German or English						
	Metho	d of ass	essment	 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 Assessment offered: In the semester in which the course is offered and in the subsequent semester 						

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-	Topolo	gical Q	uantum Ph	ysics						
E	ECTS 6 Duration			1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V (3) + R (1) Module taught in: Gern	nan or English					
	Metho	d of ass		 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 Assessment offered: In the semester in which the course is offered and in the subsequent semester 						
11-CRP-161-m01	Renorm	nalizati	on Group a	and Critical Phenomena						
	ECTS	6	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V (3) + R (1) Module taught in: Gern	nan or English					
	Metho	a or ass		 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 Assessment offered: In the semester in which the course is offered and in the subsequent semester 						
11-BWW-161-m01				ctions in One Dimensio						
	ECTS	6	Duration		Method of grading	numerical grade	Modul level	graduate		
	Course	S		V (3) + R (1) Module taught in: Gern	nan or English					
	Metho	d of ass		 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 Assessment offered: In the semester in which the course is offered and in the subsequent semester 						

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	Gauge	Theori	es			,			
	ECTS	6	Duratior	1 semester	Method of grading numerical gra	de Modul level	graduate		
	Course	es		V (3) + R (1) Module taught in: Gerr	nan or English				
				 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 Assessment offered: In the semester in which the course is offered and in the subsequent semester 					
11-GGD-161-m01				iravity Duality		<u>.</u>			
	ECTS	8	Duration		Method of grading numerical gra	de Modul level	graduate		
	Course	25		V (4) + R (2) Module taught in: Gerr	nan or English				
11-EFQ-161-m01		1	o Fraction	al Quantisation					
	ECTS	6	Duratior		Method of grading numerical gra	de Modul level	graduate		
	Course	es		V (3) + R (1) Module taught in: German or English					
	Metho	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 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 Assessment offered: In the semester in which the course is offered and in the subsequent semester 					

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11-TEF-161-m01	Topolo	Topological Effects in Electronic Systems									
ſ	ECTS	6	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	!S		V (3) + R (1) Module taught in: G	erman or English						
	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. 							
	Field T	h a a rati			: In the semester in which	the course is offered a	and in the subsequent se	emester			
11-FTAS-161-m01		-		s of Solid State Phys							
	ECTS	6	Duration		Method of grading	numerical grade	Modul level	graduate			
	Course	:S		V (3) + R (1) Module taught in: G	erman or English						
				 b) oral examination c) oral examination d) project report (ap e) presentation/talk If a written examination form of an oral examination the lecturer must influence Language of assess 		pprox. 30 minutes) or pprox. 30 minutes per o od of assessment, this each or an oral examin by four weeks prior to t glish	may be changed and ass nation in groups. If the m he original examination o				
11-AKM-161-m01	Cosmo		Duration		Mathadafaradina	numerical aredo	Madullaval	araduata			
	ECTS Course	6 25		I semester Method of grading numerical grade Modul level graduate V (3) + R (1) Module taught in: German or English							
	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 Assessment offered: In the semester in which the course is offered and in the subsequent semester 							

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11-AST-161-m01	Theore	tical As	strophysics	5						
	ECTS	6	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	!S		V (2) + R (2) Module taught in: German or English						
	Metho	d of ass		 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 Assessment offered: In the semester in which the course is offered and in the subsequent semester 						
11-APL-161-m01	High E	nergy A	strophysic	CS						
	ECTS	6	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V (3) + R (1) Module taught in: Gerr	nan or English					
	Metho			b) oral examination of c) oral examination in (d) project report (appro e) presentation/talk (a If a written examinatio form of an oral examin the lecturer must infor Language of assessme	pprox. 30 minutes). n was chosen as metho ation of one candidate of m students about this b ent: German and/or Engl	prox. 30 minutes) or prox. 30 minutes per ca d of assessment, this r each or an oral examin y four weeks prior to th ish	may be changed and ass			
11-RQFT-161-m01		-	uantum Fie		-					
	ECTS	8	Duration		Method of grading	numerical grade	Modul level	graduate		
	Course	S		V (4) + R (2) Module taught in: German or English						
	Metho	d of ass		b) oral examination of c) oral examination in a d) project report (appro e) presentation/talk (a If a written examinatio form of an oral examin the lecturer must infor Language of assessme	pprox. 30 minutes). n was chosen as metho ation of one candidate of m students about this b ent: German and/or Engl	prox. 30 minutes) or prox. 30 minutes per ca d of assessment, this each or an oral examin y four weeks prior to th ish	may be changed and ass			

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11-QFT2-161-m01	Quantu	um Fielo	Theory II						
	ECTS	8	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Course	S		V (4) + R (2) Module taught in: Germ	an or English				
				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 Assessment offered: In the semester in which the course is offered and in the subsequent semester					
11-TEP-161-m01				Particle Physics					
	ECTS	8	Duration		Method of grading	numerical grade	Modul level	graduate	
	Course	S		V (4) + R (2) Module taught in: Germ	an or English				
				 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 form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment it he 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-ATTP-161-m01				retical Elementary Partie	1				
	ECTS	6	Duration		Method of grading	numerical grade	Modul level	graduate	
	Course	2S		V (3) + R (1) Module taught in: German or English					
	Metho	d of ass		 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 Assessment offered: In the semester in which the course is offered and in the subsequent semester 					

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11-BSM-161-m01	Models	Models Beyond the Standard Model of Elementary Particle Physics									
	ECTS	6	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	S		V (3) + R (1) Module taught in: Germ	an or English						
				 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 Assessment offered: In the semester in which the course is offered and in the subsequent semester 							
11-RMFT-161-m01	Renorm	alizati	on Group I	Methods in Field Theory							
	ECTS	8	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	S		V (4) + R (2) Module taught in: Germ	an or English						
	Method			 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 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. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester 							
11-EPP-161-m01			o Plasma P								
	I	6	Duration		Method of grading	numerical grade	Modul level	graduate			
	Courses	5		V (2) + R (2) Module taught in: Germ	an or English						
	Method	l of ass		form of an oral examina the lecturer must inform Language of assessment	one candidate each (ap roups (groups of 2, ap x. 8 to 10 pages) or oprox. 30 minutes) was chosen as metho ition of one candidate n students about this b nt: German and/or Eng	pprox. 30 minutes) or prox. 30 minutes per ca od of assessment, this r each or an oral examin by four weeks prior to th lish	may be changed and ass				

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11-NMA-161-m01	Compu	Itationa	l Astrophy	/sics		Computational Astrophysics									
	ECTS	6	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate							
	Course	!S		V (3) + R (1) Module taught in: Ge	erman or English										
	Metho	d of ass		 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 Assessment offered: In the semester in which the course is offered and in the subsequent semester 											
11-0HL-161-m01	Organi	ic Semi	conductor	S											
	ECTS	6	Duratior	1 semester	Method of grading	numerical grade	Modul level	graduate							
	Course	!S		V (3) + R (1) Module taught in: Ge	erman or English	·									
	Metho	d of ass		 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 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-BMT-161-m01				nt Technology in Med		1									
	ECTS	6	Duratior		Method of grading	numerical grade	Modul level	graduate							
	Course	!S		V (3) + R (1) Module taught in: German or English											
	Metho	d of ass		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 Assessment offered: In the semester in which the course is offered and in the subsequent semester											

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11-NOP-161-m01	Nano-	Optics		,					
	ECTS	6	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Course	25		V (3) + R (1) Module taught in: Ger	man or English				
	Method of assessmenta) 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 								
11-NDS-161-m01	Low Di	imensio	nal Struct	ures					
	ECTS	6	Duratior	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Course	es		V (3) + R (1)					
				b) oral examination of c) oral examination in d) project report (appu e) presentation/talk (a If a written examination form of an oral examination the lecturer must infor Language of assessm	essment may instead take the ethod of assessment is changed, date at the latest.				
	other prerequisites			Approval from examination committee required.					
11-SUP-161-m01	· ·	conduct							
	ECTS	6	Duratior		Method of grading	numerical grade	Modul level	graduate	
	Course	<u></u> ?S		V (3) + R (1) Module taught in: German or English					
	Metho	d of ass	sessment	b) oral examination of c) oral examination in d) project report (appr e) presentation/talk (a If a written examination form of an oral examination the lecturer must infor Language of assessm	approx. 30 minutes) on was chosen as metho	prox. 30 minutes) or prox. 30 minutes per car d of assessment, this m each or an oral examinat y four weeks prior to the ish	ay be changed and ass tion in groups. If the m e original examination		

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11-CSFM-161-m01	Advanc	ed Topi	cs in Soli	d State	Physics			_			
	ECTS	6	Duratior	ı (1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	5		V (3) +	V(3) + R(1)						
	Method	l of asse	essment	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 pr	rerequis	ites	Appro	Approval from examination committee required.						
11-CSAM-161-m01		ed Topi	cs in Astr		CS						
	ECTS	6	Duratior		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	-		V (3) +							
	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 pr	rerequis	ites	Approval from examination committee required.							
11-FPA-161-m01	Visiting	g Reseau	ch								
	ECTS	10	Duratior	ı l		Method of grading	numerical grade	Modul level	graduate		
	Courses			R (o)							
	Method of assessment			project report (10 to 20 pages) Language of assessment: German and/or English							
	other pr	rerequis	ites	Approval from examination committee required.							

11-EXE5-161-m01	Current Topics in Experimental Physics											
	ECTS 4	5	Duratior	1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses			V (2) + R (2)	· · ·							
	Method	of asse	ssment	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 (app	rox. 8 to 10 pages) or	,						
				e) presentation/talk (approx. 30 minutes) on was chosen as method of assessment, this n	nay be changed and as	sessment may instead take the					
				form of an oral exami	nation of one candidate each or an oral examina	ation in groups. If the m	ethod of assessment is changed,					
					rm students about this by four weeks prior to th	ne original examination	date at the latest.					
			••		ent: German and/or English							
	other pre	· ·			nation committee required.	,						
11-EXE6-161-m01		-		mental Physics			Laura du a ta					
	ECTS e		Duratior		Method of grading numerical grade	Modul level	graduate					
	Courses			$\frac{1}{3} + R(1)$								
	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 (app	rox. 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 pre			Approval from examination committee required.								
11-EXE7-161-m01				mental Physics								
	ECTS 7 Duratio											
1		,			Method of grading numerical grade	Modul level	graduate					
	Courses	,		V (3) + R (1)		Modul level	graduate					
	Courses	,		V (3) + R (1) a) written examinatio	n (approx. 90 to 120 minutes) or	Modul level	graduate					
	Courses	,		V (3) + R (1) a) written examinatio b) oral examination o	n (approx. 90 to 120 minutes) or f one candidate each (approx. 30 minutes) or	I	graduate					
	Courses	,		V (3) + R (1) a) written examinatio b) oral examination o c) oral examination ir	n (approx. 90 to 120 minutes) or f one candidate each (approx. 30 minutes) or groups (groups of 2, approx. 30 minutes per ca	I	graduate					
	Courses	,		V (3) + R (1) a) written examinatio b) oral examination o c) oral examination in d) project report (app e) presentation/talk (n (approx. 90 to 120 minutes) or f one candidate each (approx. 30 minutes) or groups (groups of 2, approx. 30 minutes per ca rox. 8 to 10 pages) or (approx. 30 minutes)	andidate) or						
	Courses	,	ssment	V (3) + R (1) a) written examination o b) oral examination o c) oral examination ir d) project report (app e) presentation/talk (If a written examination	n (approx. 90 to 120 minutes) or f one candidate each (approx. 30 minutes) or groups (groups of 2, approx. 30 minutes per ca rox. 8 to 10 pages) or (approx. 30 minutes) on was chosen as method of assessment, this n	andidate) or nay be changed and as	sessment may instead take the					
	Courses	,	ssment	V (3) + R (1) a) written examination o b) oral examination o c) oral examination in d) project report (app e) presentation/talk (If a written examination form of an oral examination	n (approx. 90 to 120 minutes) or f one candidate each (approx. 30 minutes) or groups (groups of 2, approx. 30 minutes per ca rox. 8 to 10 pages) or (approx. 30 minutes) on was chosen as method of assessment, this n nation of one candidate each or an oral examina	andidate) or nay be changed and as ation in groups. If the m	sessment may instead take the lethod of assessment is changed,					
	Courses	,	ssment	V (3) + R (1) a) written examinatio b) oral examination o c) oral examination ir d) project report (app e) presentation/talk (If a written examination form of an oral exami the lecturer must info	n (approx. 90 to 120 minutes) or f one candidate each (approx. 30 minutes) or groups (groups of 2, approx. 30 minutes per ca rox. 8 to 10 pages) or (approx. 30 minutes) on was chosen as method of assessment, this n	andidate) or nay be changed and as ation in groups. If the m	sessment may instead take the lethod of assessment is changed,					

11-EXE8-161-m01	Current Topics in Experimental Physics											
	ECTS	8	Duration	n 1 semester	Method of grad	ing numerical grade	Modul level	graduate				
	Course	S		V (4) + R (2)	·		•					
	Metho	d of ass	essment	a) written examination (approx. 90 to 120 minutes) or								
						(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								
				If a written examina	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 exa	mination of one candid	ate each or an oral exami	nation in groups. If the n	nethod of assessment is changed,				
						is by four weeks prior to t	the original examination	date at the latest.				
					sment: German and/or	•						
	other p	· · ·			nination committee req	uired.						
11-EXE6A-161-m01				mental Physics								
		6	Duration		Method of grad	ing numerical grade	Modul level	graduate				
	Course			V (3) + R (1)								
	Metho	d of ass	essment	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								
11-EXP6-161-m01	other prerequisites Approval from examination committee required. Current Topics in Physik											
11-EXP6-161-M01			-									
		6	Duration		Method of grad	ing numerical grade	Modul level	graduate				
	Course			V (3) + R (1)		• • •						
	Metho	d of ass	essment		ion (approx. 90 to 120	minutes) or (approx. 30 minutes) or						
						approx. 30 minutes per o	candidate) or					
					oprox. 8 to 10 pages) or							
				e) presentation/tal	e) presentation/talk (approx. 30 minutes)							
								sessment 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 che the lecturer must inform students about this by four weeks prior to the original examination date at the latest.								
					sment: German and/or		the original examination	date at the latest.				
	othern	orerequi	sites		nination committee req	<u> </u>						
	Jound	leicqui	51(05		initiation committee req	uncu.						

11-TDO-161-m01	Thermodyna	mics and E	conomics							
	ECTS 6	Duratio	n	1 semester	Method of grading (not) successfully complete	d Modul level	graduate			
	Courses			+ R (1)						
			Module taught in: German or English							
	Method of as	sessment	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or							
			c) 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)						
					was chosen as method of assessment, this may be ion of one candidate each or an oral examination i					
					students about this by four weeks prior to the origination of the students about the stud					
			Langu	uage of assessment	: German and/or English					
		1			he semester in which the course is offered and in t	he subsequent se	emester			
11-EXT5-161-m01	Current Topic			· ·	1					
	ECTS 5	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses			(2) + R (2)						
	Method of as	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							
				esentation/talk (app						
				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 prerequ	uisites	Approval from examination committee required.							
11-EXT6-161-m01	Current Topic	t Topics of Theoretical Physics								
	ECTS 6	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses		-	+ R (1)						
	Method of as	sessment			approx. 90 to 120 minutes) or					
					ne candidate each (approx, 30 minutes) or	ite) 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)							
					was chosen as method of assessment, this may be					
					ion of one candidate each or an oral examination i students about this by four weeks prior to the orig					
					: German and/or English					
	other prerequ	uisites	Appro	oval from examinati	on committee required.					

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11-EXT7-161-m01	Current Topics of Theoretical Physics											
	ECTS	7	Duratior	n 1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses	5		V (3) + R (1)	·	·						
	Method	l of ass	essment	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or								
				c) oral examination in	c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or							
				d) project report (appr e) presentation/talk (a								
				If a written examination	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	Approval from examin	ation committee required.							
11-EXT8-161-m01	Current	Topics	of Theore	etical Physics								
	ECTS 8 Duratio			1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses	5		V (4) + R (2)								
				 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 t form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is char 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-EXT6A-161-m01			1	etical Physics								
		6	Duration		Method of grading numerical grade	Modul level	graduate					
	Courses Method				n (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			Approval from examination committee required.								

11-EXP6A-161-m01	Curren	t Topics	in Physik							
	ECTS	6	Duration	ı (1 semester	Method of grading	numerical grade	Modul level	graduate	
	Course	S		V (3) +	- 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) pres If a wr form o the leo Langu	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					
		rerequis				tion committee requir	ed.			
11-MRI-171-m01			netic Res							
		6	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses			V (3) + R (1) Module taught in: English						
	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 th form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is chan 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 					ethod of assessment is changed, date at the latest.	
11-STRG1-171-m01		Theory 1	1 Duration						Lava du ata	
	ECTS Course	8 s	1	n 1 semester Method of grading numerical grade Modul level graduate V (4) + R (2) Module taught in: German or English						
	Methoo	d of asse		 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 Assessment offered: In the semester in which the course is offered and in the subsequent semester 						

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11-STRG2-171-m01	String	Theory :	2								
	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						
	Methoo	d of asse		 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 Assessment offered: In the semester in which the course is offered and in the subsequent semester 							
11-SLQ-232-m01	Black H	loles									
	ECTS	6	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S			(3) + R (1) Nodule taught in: German or English						
Module Area A: Foc				 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 form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is ch 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 					nethod of assessment is changed, date at the latest.		
MINT-B1-162-m01			ject Didac								
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	1 -		Modu		an and/or English ly S (2) or P (2) instead	d of Ü (1)	I			
	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							

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MINT-B2-162-m01	Advanced Subject Didactics 2										
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	es		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			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 C: Inte	r			y rese	arch (10 ECTS cred	its)					
MINT-C1-162-m01		rch in G			1		1				
	ECTS	5	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses			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			b) ora c) tall d) pra e) ter Langu	al examination of o < (30 to 60 minutes actical assignment m paper (approx. 1	ne candidate each (20 5) or	o to 40 minutes) or rox. 10 to 20 pages) and talk (ap chosen)	oprox. 15 minut	es) or		
MINT-C2-162-m01	Scientific Internship										
	ECTS	5	Duration	า	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses			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			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							

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Module Area D: Subject specific key skills (10 ECTS credits)									
MINT-D1-162-m01	Key Competences for Teaching Professions 1								
	ECTS 5 Duration		า	1 semester	Method of grading	(not) successfully completed	Modul level	graduate	
	Courses			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			 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 Competences for Teaching Professions 2								
	ECTS 5 Duratio		ı	1 semester	Method of grading	(not) successfully completed	Modul level	graduate	
	Courses		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			 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 					