

Annex SFB

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

Responsible: Faculty of Biology Examination regulations version: 2016 Responsible: Faculty of Chemistry and Pharmacy Examination regulations version: 2016 Responsible: Faculty of Mathematics and Computer Science Examination regulations version: 2016

Responsible: Faculty of Physics and Astronomy

Abbreviations used: Course types: $\mathbf{E} = \text{field trip}$, $\mathbf{K} = \text{colloquium}$, $\mathbf{O} = \text{conversatorium}$, $\mathbf{P} = \text{placement/lab course}$, $\mathbf{R} = \text{project}$, $\mathbf{S} = \text{seminar}$, $\mathbf{T} = \text{tutorial}$, $\ddot{\mathbf{U}} = \text{exercise}$, $\mathbf{V} = \mathbf{V} = \mathbf{V}$

= 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

Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not cremodules in this SFB: ditable for bonus.

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

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

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

Examination regulations version: 2016

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

ASP02015

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

14-Sep-2016 (2016-97) 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

20-Dec-2017 (2017-72) 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 (2018-19)

12-Jun-2024 (2024-78)

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

Every module will be described using the following form:

Abbreviation	Module title										
	ECTS		Duration	(in semesters)	Method of grading		Module level				
	Courses			ecified in the form	X (y) with course type >	(abbreviated as specified abo	ove and number of we	ekly contact hours y			
	Method of as	ssessm	ent								
	Only after su completion o		ıl if applic	if applicable							
	Other prereq	uisites	if applic	if applicable							
	Participants and allocation of places		ocati- if applic	if applicable							
	Additional in	formati	ion if applic	able							
	Referred to i	n LPO I	if applic	if applicable (examination regulations for teaching-degree programmes)							

Module Area A: Focus Subject (60 ECTS credits)											
Focus Subject Biolo	ogy (60 ECTS cr	edits)									
07-GY-BFM-152-	Research Met	hods in Bi	ology								
mo1	ECTS 5	Duratio	n 1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate				
	Courses		S (3)								
	Method of ass	essment	c) oral examination of on d) oral examination in groe) presentation (approx. f) practical examination (maximum of 4 hours) or g) term paper (approx. 10 to 1) project (approx. 10 to 1) portfolio	o) log (approx. 10 to 20 pages) or c) oral examination of one candidate each (approx. 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) or e) presentation (approx. 20 to 30 minutes) or e) practical examination (on average approx. 2 hours; time to complete will vary according to subject area but will not exceed a maximum of 4 hours) or e) term paper (approx. 10 to 30 pages) or e) project (approx. 10 to 30 pages) or e) portfolio e) portfolio e) portfolio e) portfolio							
	Referred to in	LPO I	§ 61 l Nr. 7								
07-GY-FOP-152-	Research-orie	nted work	king in Biology								
mo1	ECTS 7	Duratio		Method of grading	numerical grade	Modul level	undergraduate				
	Courses		Ü (4)								
			e) presentation (approx. f) practical examination (maximum of 4 hours) or g) term paper (approx. 10 h) project (approx. 10 to j) portfolio Students will be informed creditable for bonus	vages) or e candidate each (app oups of up to 3 candid 20 to 30 minutes) or on average approx. 2 le to 30 pages) or 30 pages) or	rox. 30 minutes) or ates (approx. 20 minutes per	ary according to	subject area but will not exceed a				
	Referred to in		§ 61 l Nr. 7								
07-LA-HU- BIO-1-152-m01	Basic Human					I.a					
БЮ-1-152-11101	ECTS 6	Duratio		Method of grading	numerical grade	Modul level	undergraduate				
	Courses		V (3)								
	Method of ass		written examination (approx. 60 to 90 minutes) creditable for bonus								
	Referred to in	LPO I	§ 61 l Nr. 5								

o7-LA-HU-	Basic H	uman E	Biology II									
BIO-2-152-mo1	ECTS	5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses	5		Ü (3)								
	Method	l of ass	essment		Logs (approx. 30 hours) and 10 to 15 drawings creditable for bonus							
	Modules successfully completed			07-LA	o7-LA-HUBIO-1 or o7-GMR-HUBIO-1							
	Referre	d to in l	PO I		§ 41 Nr. 5 § 61 Nr. 5							
o7-GY-MI-	Advanc	ed Micı	obiology	- GY								
BI-152-mo1	ECTS 5 Duration			n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	5		Ü (3)								
	Method	l of ass	essment		en examination (approx. 6o minutes) itable for bonus							
	other prerequisites				Admission prerequisite to assessment: exercises. Regular attendance (minimum 80%) and successful completion of exercises (approx. 25 to 30 hours) are prerequisites for admission to assessment.							
	Referre	d to in l	PO I	§ 61 l	Nr. 3							
07-MS1-152-m01	Neurobiology, Behavioural Physiology and Animal Ecology											
	ECTS 10 Duratio			1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	5		V (3) Modu	V (3) Module taught in: English							
	Method	l 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-MS1CB-152-	Endoge	nous C	locks									
mo1	ECTS	10	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			V (2) + S (1) Module taught in: English								
	Method of assessment			a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) 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-	Neu	Neuromodulation and Neuronal Development												
D-152-m01	ECT	S 10	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Cor	ırses			V (2) + S (1) Module taught in: English									
	Me	thod of as	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-	Neu	urobiology	/ F1					,						
F1-152-m01	ECT	S 10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses				P (14) + S (1) Module taught in: German and/or English									
	Method of assessment			a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English										
07-MS1N-	Neurobiology F2													
F2-152-m01	ECTS 15 Duration			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	tten examination (30 (15 to 30 pages) or l examination of one l examination in gro sentation (20 to 45 rage of assessment:									
07-MS1TÖ-152-	Ani	mal Ecolo	gy and Tro	pical B	iology									
mo1	ECT	S 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 of assessment			c) ora d) ora	l examination of one l examination in gro	kamination (30 to 60 minutes, including multiple choice questions) or nination of one candidate each (30 to 60 minutes) or nination in groups of up to 3 candidates (30 to 60 minutes) f assessment: German and/or English								

07-MS1TÖ2-152-	Animal Ecology and Tropical Biology 2											
mo1	ECTS	10	Duration	ı	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S			V (2) + S (1) Module taught in: English							
	Method	d 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-MS1TÖF1-152-	Animal	Ecolog	y F1									
mo1	ECTS	10	Duration	า	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S			O (14) + S (1) Module taught in: German and/or English							
	Method	a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English										
07-MS1TÖF2-152-	Animal Ecology and Tropical Biology F2											
mo1	ECTS	15	Duration	ı	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	(15 to 30 pages) o l examination of o l examination in g sentation (20 to 4)	ne candidate each (30 to 60 minutes) or roups of up to 3 candidates (30 to 60 minutes) or	ns) or					
07-MS1K-152-m01	Animal	Commi	ınication									
	ECTS	10	Duration	ı	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses			V (2) + S (1) Module taught in: German and/or English								
	Method	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) presentation (20 to 45 minutes) anguage of assessment: German and/or English							

07-MS1ES-152-	Experimental Sociobiology												
mo1	ECTS	10	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	2S			V (2) + S (1) Module taught in: English								
	Method	d of asse	essment	b) log c) ora d) ora e) pre	a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English								
07-MS1N-	Neurog	genetics	of Behav	iour									
B-152-mo1	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	es		V (2) - Modu	+ S (1) le taught in: English								
	Method	d of asse	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-MS1V-	Behavioural Physiology and Sociobiology F1												
F1-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	es			P (14) + S (1) Module taught in: German and/or English								
	Method	d of asse	essment	b) log c) ora d) ora e) pre	a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English								
07-MS1V-	Behavi	ioural Ph	nysiology	and S	ociobiology F2								
F2-152-m01	ECTS	15	Duration	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 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 I	ion of one candidate each (30 to 60 minutes) or ion in groups of up to 3 candidates (30 to 60 minutes) or							

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) Modu	(3) lodule taught in: German and/or English								
	Method	d of ass	essment	c) ora d) ora) written examination (30 to 60 minutes, including multiple choice questions) or) oral examination of one candidate each (30 to 60 minutes) or) oral examination in groups of up to 3 candidates (30 to 60 minutes) anguage of assessment: German and/or English								
07-MS2ZE1-152-	Cell an	Cell and Developmental Biology Master 1											
mo1	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		V (1) + Modu		an and/or English							
	Method	d of ass	a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English										
07-MS2ZE2-152-	Cell and Developmental Biology Master 2												
mo1	ECTS 10 Duratio			n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S			V (1) + S (2) 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) Students will be informed about the method, length and scope of the assessment prior to the Language of assessment: German and/or English					e course.				
07-MS2ZE-	Cell an	d Devel	opmental	Biolog	gy F1								
F1-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		P (14) + S (1) Module taught in: German and/or English									
	Method of assessment			a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English									

07-MS2ZE-	Cel	Cell and Developmental Biology F2											
F2-152-m01	EC1	TS 15	5	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Cou	urses				+ S (1)			,	,			
						le taught in: Germar							
	Me	thod o	f asse	ssment			o to 60 minutes, incli	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								
07-MS2IN-						e) presentation (20 to 45 minutes) Language of assessment: German and/or English							
	16	4! !	D: - I		Langu	age of assessment:	German and/or Engi	ısn					
07-MS21N- F-152-m01	ECT	ection		Duration		4 competer	Mathad of avadina	numarical arada	Madullaval	aradusts			
1,201		TS 10 urses)]	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
					Modu	/ (2) + S (1) Module taught in: German and/or English							
	Me	thod o	f asse:	ssment	a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English								
07-MS2PA-152-	Pathogenicity of Microorganisms												
mo1	EC1			Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses				V (2) + S (1) Module taught in: English								
	Me	thod o	f asse	ssment	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-	Mic	crobiol	ogy F1										
F1-152-m01	EC1	TS 10)	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Cou	urses			P (14) + S (1) Module taught in: German and/or English								
	Method of assessment												
					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 Information				The internship must be completed full-time within a period of 5 to 6 weeks.								

07-MS2M-	Microbiology F2											
F2-152-m01	ECTS 15	Duratio	n	1 semester	Method of grading (not) successfully of	completed	Modul level	graduate				
	Courses	`		+ S (1) le taught in: Germ	an and/or English		,					
	Method of as	sessment	b) log c) oral 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								
	Additional In	formation	The in	ternship must be	completed full-time within a period of 10 to	o 12 weeks.	•					
07-MS2B-	Biophysics a			echnology								
T-152-m01	ECTS 10	Duratio		1 semester	Method of grading numerical grade		Modul level	graduate				
	Courses			/ (2) + S (1) Module taught in: English								
			c) oral 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-MS2BT-	Biophysics and Molecular Biotechnology F1											
F1-152-m01	ECTS 10	Duratio		1 semester	Method of grading numerical grade		Modul level	graduate				
	Courses			P (14) + S (1) Module taught in: German and/or English								
	Method of as	sessment	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-	Biophysics a	nd Molecu	lar Biot	echnology F2								
F2-152-m01	ECTS 15	Duratio		1 semester	Method of grading (not) successfully o	completed	Modul level	graduate				
	Courses		P (29) + S (1) Module taught in: German and/or English									
	Method of as	sessment	b) log c) oral d) ora e) pres	(15 to 30 pages) of lexamination of ole examination in gentation (20 to 4)	ne candidate each (30 to 60 minutes) or roups of up to 3 candidates (30 to 60 minu	·	s) or					

07-MS2BI-152-m01	Bioinfo	rmatics				'						
	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (2) - Modu	+ S (1) le taught in: Germar	n and/or English						
	Method	d of asse	essment	c) ora d) ora	a) written examination (30 to 60 minutes, including multiple choice questions) or (c) oral examination of one candidate each (30 to 60 minutes) or (d) oral examination in groups of up to 3 candidates (30 to 60 minutes) (anguage of assessment: German and/or English							
07-MS2BIF1-152-	Bioinfo	rmatics	F1									
mo1	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			14) + S (1) Indule taught in: German and/or English							
	Method	d of asse	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-MS2BIF2-152-	Bioinfo	rmatics	F2			, ,	,					
mo1	ECTS						(not) successfully complete	d Modul level	graduate			
	Course	S		P (29) + S (1) Module taught in: German and/or English								
	Method	d of asse	essment	a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English								
07-MS31-152-m01	Current	t Metho	ds in Biol	ogy								
	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses Method of assessment			V (3) Modu	V (3) Module taught in: German 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-MS31P0EK-152-												
mo1	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S			V (2) + S (1) Module taught in: German and/or English							
	Method	d of 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-152-	Plant Ir	mmunol	biology a	nd Pha	rmaceutical Biology	1						
mo1	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (2) - Modu	+ S (1) le taught in: Germa	n and/or English						
	Method	d of ass	essment	c) ora d) ora	a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English							
07-MS3B-	Biophysics and Biochemistry											
B-152-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	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-MS31MPP-	Molecu	ılar Plar	nt Physiol	ogy F1								
F1-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		P (14) Modu								
	Method of assessment			a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English								

07-MS31MPP-	Molecular Plant Physiology F2												
F2-152-m01	ECTS	15	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate					
	Course	!S		P (29) + S (1) Module taught in: Ge	rman and/or English								
				a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English									
07-MS3BSBF1-152-	Bioche	mistry a	and Struct	ural Biology F1									
mo1	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	!S		P (14) + S (1) Module taught in: Ge	(14) + S (1) Module taught in: German and/or English								
	Method	d of asso		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	1 semester	Method of grading	(not) successfully completed	Modul level	graduate					
m01	Courses			P (29) + S (1) Module taught in: German and/or English									
	Method of assessment			a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English									
07-MS3B-		sics of I	Plant Men	nbrane Proteins F1									
PF1-152-m01	ECTS	10	Duration		Method of grading	numerical grade	Modul level	graduate					
	Course	!S		P (14) + S (1) Module taught in: German and/or English									
	Method of assessment			a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English									

07-MS3B-	Biophysics of Plant Membrane Proteins F2											
PF2-152-m01	ECTS 15	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Courses	,		+ S (1) le taught in: Germar	and/or English		,					
	Method of as	ssessment	a) writ b) log c) oral 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-MS3S-	Plant Signall	ling F1	,									
PF1-152-m01	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	,		P (14) + S (1) Module taught in: German and/or English								
	Method of as	ssessment	a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English									
07-MS3S-	Plant Signalling F2											
PF2-152-m01	ECTS 15	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Courses		P (29) + S (1) Module taught in: German and/or English									
	Method of as	ssessment										
o7-MS3PBM-	Pharmaceuti	cal Biology	and M	etabolomics F1								
F1-152-m01	ECTS 10	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		P (14) + S (1) Module taught in: German and/or English									
	Method of as	ssessment	a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English									

o7-MS3PBM-	Pharmac	Pharmaceutical Biology and Metabolomics F2											
F2-152-m01	ECTS 1	5 Duratio	n 1 semester	Method of grading	(not) successfully completed	Modul level	graduate						
	Courses		P (29) + S (1) Module taught in: Ger	rman and/or English									
	Method o	of assessment	b) log (15 to 30 pages c) oral examination of d) oral examination ir e) presentation (20 to	a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English									
o7-MS3PPE-	Physiolo	gical Plant Eco	logy F1										
F1-152-m01	ECTS 1	o Duratio	n 1 semester	Method of grading	numerical grade	Modul level	graduate						
	Courses		P (14) + S (1) Module taught in: Ger	(14) + S (1) Indule taught in: German and/or English									
	Method o	of assessment	a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English										
o7-MS3PPE-	Physiological Plant Ecology F2												
F2-152-m01	ECTS 1	5 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 o	of assessment	b) log (15 to 30 pages c) oral examination of d) oral examination ir e) presentation (20 to) or fone candidate each (3) groups of up to 3 cand	idates (30 to 60 minutes) or	s) or							
o7-MS3MCPE-	Molecula	r and Chemica	l Plant Ecology F1										
F1-152-m01	ECTS 1	o Duratio		Method of grading	numerical grade	Modul level	graduate						
	Courses	_	P (14) + S (1) Module taught in: German and/or English										
	Method o	of assessment	a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English										

o7-MS3MCPE-	Molecular and Chemical Plant Ecology F2												
F2-152-m01	ECTS	15	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Course	es.			+ S (1)	.,		,					
					le taught in: Germa								
	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) ora	l examination in gr	oups of up to 3 candi	dates (30 to 60 minutes) or						
					sentation (20 to 45		li ala						
07 MCoC 450 mo4	System	na Diala		Langu	lage of assessment	: German and/or Eng	lish 						
07-MS3S-152-m01	ECTS		Sy Duration	•	l compostor	Mothod of grading	numarical arada	Modul level	are due to				
	Course	10	Duration	V (2) -	1 semester	Method of grading	numericai grade	Modul level	graduate				
	Course	:5		` '	t 3 (1) le taught in: Germa	n and/or English							
	Metho	d of ass	essment	a) wri c) ora d) ora	a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English								
07-MS3SYF1-152-	Systems Biology F1												
mo1	ECTS	10	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses				P (14) + S (1) Module taught in: German and/or English								
	Method of assessment			a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English									
07-MS3SYF2-152-	Systen	ns Biolo	gy F2										
mo1	ECTS	15	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Course	<u>!</u> 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									

o7-MS3COB-	Compu	itationa	l Biology	F1								
F1-152-m01	ECTS	10	Duratio	1	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) 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							
o7-MS3COB-	Compu	ıtationa	l Biology	F ₂			,					
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	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-MSL1-152-m01	Laboratory Course 1											
	ECTS	5	Duratio	1	1 semester	Method of grading (not) successfully completed	Modul level	graduate				
	Course	!S		P (5) Module taught in: German and/or English								
	Method of assessment			a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) 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	Please consult with course advisory service in advance.							

07-MSL2-152-m01	Laboratory Course 2												
07-181312-152-11101	ECTS	10	Duration		1 semester	Method of grading (not) successfully completed	Modul level	graduate					
	Course		Duration	P (15)	1 Semester	Method of grading (not) successfully completed	Modulitevel	graduate					
	Course	3			le taught in: Germar	n and/or English							
	Method	d of ass	essment	b) log c) ora d) ora e) pre	anguage of assessment: German and/or English								
	other p	rerequi	sites	Pleas	e consult with cours	e advisory service in advance.							
07-MSL3-152-m01	Labora	tory Co	urse 3										
	ECTS	15	Duration	1	1 semester	graduate							
	Course	S		P (30) Modu	lodule taught in: German and/or English								
	Method	d of ass	essment	b) log c) ora d) ora e) pre	a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English								
	other p	rerequi	sites	Please consult with course advisory service in advance.									
07-MSA1-152-m01	Externa	al Interr	ship 1										
	ECTS	5	Duration		1 semester	Method of grading (not) successfully completed	Modul level	graduate					
	Course	S		P (10) 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									
	other prerequisites			Pleas	e consult with cours	e advisory service in advance.							

07-MSA2-152-m01	Externa	al Interr	ıship 2									
	ECTS	10	Duratio	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course	S		P (15)								
	NA - 41	-l - C			Module taught in: German and/or English a) written examination (approx. 30 to 60 minutes, including multiple choice questions) or							
	Method	u or ass	essment		b) log (approx. 15 to 30 pages) or							
				c) ora	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 experience process presentation (approx. 20 to 45 minutes)							
					lage of assessmen							
	other p	rerequi	sites	Please	e consult with cour	rse advisory service in	advance.					
07-MSA3-152-m01	Externa	al Interr	ıship 3									
	ECTS	15	Duratio		1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course	S		P (30)		on and lay English						
	Motho	d of acc	essment		le taught in: Germa		uding multiple choice question	us) or				
	Method	u ui ass	essillelli		(15 to 30 pages) o		duling multiple choice question	(3) (1)				
				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)								
						t: German and/or Eng	lish					
	other p	rerequi	sites	Pleas	e consult with cou	rse advisory service in	advance.					
07-ML-152-m01		nd Perl										
	ECTS	5	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course	!S		S (3) Modu	S (3) Module taught in: German and/or English							
	Metho	d of ass	essment				uding multiple choice question	s) or				
					(15 to 30 pages) o	r ne candidate each (30	to 60 minutes) or					
							dates (30 to 60 minutes) or					
					sentation (20 to 4		1. 1					
07-MLS1B-152-	Motho	de in Lif	e Science		age of assessmen	t: German and/or Eng	lisn					
mo1	ECTS	7	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course	<u></u>	Duration	V (3)	1 Semester	Method of grading	(not) successibility completed	Modulitevel	graduate			
	Course	.5		V (3) Module taught in: English								
	Method	d of ass	essment	a) wri	tten examination (30 to 60 minutes, incl	uding multiple choice question	s) or				
				c) oral examination of one candidate each (30 to 60 minutes) or								
					d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: English							

07-MLS1-152-m01	Method	ls in Lif	e Science	 !S								
	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (3) Modu	le taught in: English							
	Method	d of asso	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: English							
07-MLS2B-152-	<u> </u>	and Cor	ncepts in	Life Sc	iences B	_						
mo1	ECTS	7	Duratio		1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course				dule taught in: English							
	Method	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: English								
07-MLS2-152-m01	Topics	and Cor	ncepts in	Life Sc	iences							
	ECTS	10	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (3) Module taught in: English								
	Method	Method of assessment			l examination of one l examination in gro	e candidate each (30 oups of up to 3 candid l about the method, l	uding multiple choice question to 60 minutes) or dates (approx. 30 to 60 minute ength and scope of the assess	s)	ne course.			
07-MS31B-152-	Current	Metho	ds in Biol	ogy B								
mo1	ECTS	7	Duratio		1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course			V (3) Module taught in: English								
	Method of assessment			a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English								

07-MS31POEK-	Plant E	cology	В	'							
B-152-mo1	ECTS	5	Duratio	n	1 semester	Method of grading (not) successfully completed	Modul level	graduate			
	Course	S		V (2) Modu	le taught in: English	1	,				
	Method	d of ass	essment	c) ora d) ora	a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English						
07-MS31PIP-	Plant Ir	nmunol	oiology a	nd Pha	rmaceutical Biology	у В	•				
B-152-m01	ECTS	5	Duratio	n	1 semester	Method of grading (not) successfully completed	Modul level	graduate			
	Course	S		V (2) Modu	le taught in: Germa	n and/or English	,				
	Method of assessment			c) ora d) ora	a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English						
o7-MS3BB-	Biophysics and Biochemistry B										
B-152-mo1	ECTS 5 Duration			n	1 semester	Method of grading (not) successfully completed	Modul level	graduate			
	Course	Courses			le taught in: English	1					
	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-MS2BT-	Biophy	sics and	d Molecu	lar Biot	technology B		'				
B-152-m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		V (2) Module taught in: English							
	Method	d of ass	essment	a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) 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-MS1B-152-m01	Neurob	iology,	Behaviou	ral Ph	ysiology and Anima	l Ecology B						
	ECTS	7	Duratio		1 semester	Method of grading (not) successfully completed	Modul level	graduate				
	Course	S		V (3) Modu	le taught in: English							
				c) ora d) ora	a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English							
07-MNBB-152-m01	Neurog	enetics	of Behav	iour B								
	ECTS	5	Duratio	1	1 semester	Method of grading (not) successfully completed	Modul level	graduate				
	Course	S		V (3) Modu	le taught in: English							
	Method	d of ass	essment	c) ora d) ora	a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English							
o7-MEN-	Neuron	nodulat	ion and N	eurona	l Development B							
MNDB-152-m01	ECTS 5 Duration			1	1 semester	Method of grading (not) successfully completed	Modul level	graduate				
	Courses			V (3) Modu	le 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) 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-MECB-152-m01	Endoge	nous C	locks B									
	ECTS	5	Duration	1	1 semester	Method of grading (not) successfully completed	Modul level	graduate				
	Course	S		V (2) 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) 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	Animal Ecology and Tropical Biology B											
	ECTS	5	Duration	า	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses	5	_	V (2)				,				
					le taught in: Germar	-						
	Method	of ass	essment			o to 60 minutes, incli e candidate each (30	uding multiple choice question	s) or				
					l examination in gro							
					anguage of assessment: German and/or English							
07-MTÖ2B-152-					ical Biology 2 B							
mo1	ECTS	5	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses				le taught in: English							
	Method	of ass	essment	c) ora d) ora Stude	written examination (30 to 60 minutes, including multiple choice questions) or or or or or or candidate each (30 to 60 minutes) or							
07-MKB-152-m01	Animal	Commu	ınication	В								
	ECTS	7	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses	5		V (2) - Modu	+ S (1) le taught in: Germar	n and/or English						
	Method	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-MESB-152-m01	Experim	nental S	Sociobiolo	ogy B								
	ECTS	7	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses	5		V (2) - Modu								
	Method	of ass	essment	a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English								

07-MS2B-152-m01	Molecu	lar Biol	ogy B								
	ECTS	7	Duratio	n	1 semester	Method of grading (not) successfully	completed	Modul level	graduate		
	Courses	S		V (3) Modu	le taught in: Germai	and/or English					
	Method	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-MS2INF-B-152-	Infectio	n Biolo	gy B								
mo1	ECTS	5	Duration	n	1 semester	Method of grading (not) successfully	completed	Modul level	graduate		
	Courses	S		V (2) Modu	ule taught in: German and/or English						
	Method of assessment			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-	Pathogenicity of Microorganisms B										
mo1	ECTS	5	Duration		1 semester	Method of grading (not) successfully	completed	Modul level	graduate		
	Courses	S		V (2) Module taught in: English							
	Method	d of ass	essment	c) ora d) ora	a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English						
07-MBI-B-152-m01	Bioinfo	rmatics	В								
	ECTS	5	Duratio	n	1 semester	Method of grading (not) successfully	completed	Modul level	graduate		
	Courses				le taught in: Germa	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	ıs Biolo	gy B						-			
	ECTS	5	Duratio	n	1 semester	Method of gradin	g (not) successfully completed	Modul level	graduate			
	Course	S	,	V (2)	lo tought in Corn	an and lar English		·				
	^^ -+l				Module taught in: German 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							
	Method	a or ass	essment	c) ora d) ora								
07-MKE-	Nucleu	s Works	shop									
WO-152-m01	ECTS	7	Duratio	1	1 semester	Method of gradin	g (not) successfully completed	Modul level	graduate			
	Course	S		Ü (5) Modu		nan and/or English						
	Method	d of ass	essment	c) ora d) ora	written examination (30 to 60 minutes, including multiple choice questions) or oral examination of one candidate each (30 to 60 minutes) or oral examination in groups of up to 3 candidates (30 to 60 minutes) nguage of assessment: German and/or English							
07-MTROP-152-	Tropical Ecology											
mo1	ECTS 5 Duratio			<u> </u>	1 semester	Method of gradin	g numerical grade	Modul level	graduate			
	Course	S		Ü (3)	le taught in: Germ	nan 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-MPWD-152-m01	Presen	tation o	f Scientif	ic Data	ı			,				
	ECTS	5	Duratio	า	1 semester	Method of gradin	g (not) successfully completed	Modul level	graduate			
	Course	S		S (2) Modu	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-MGLN-152-m01	Quality	Quality Assurance, Good Practice, Biosafety and Biosecurity												
	ECTS	5	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses	S		V (1) - Modu	S (1) le taught in: Germa	n and/or English		,						
	Method	l of asse	essment		a) written examination (30 to 60 minutes, including multiple choice questions) Language of assessment: German and/or English									
07-MV-	Special	Subjec	t Studies	Biolog	gy and Natural Scien	nces 4								
MINT4-152-mo1	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses			S (2) Module taught in: German and/or English Course type: might also be offered in V, Ü, P, R or E format										
	Method	l of asse	essment	b) log c) ora d) ora e) pre	a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English									
İ	other prerequisites Please consult with course advisory service in advance.													
07-MV-	Special Subject Studies Biology and Natural Sciences 4B													
MINT4B-152-mo1	ECTS	5	Duration	า	1 semester	Method of grading	(not) successfully completed	Modul level	graduate					
	Courses			S (2) Module taught in: German and/or English Course type: might also be offered in V, Ü, P, R or E format										
	Method of assessment			b) log c) ora d) ora e) pre	(15 to 30 pages) or l examination of on- al examination in gro esentation (20 to 45	e candidate each (30 oups of up to 3 candi	dates (30 to 60 minutes) or	s) or						
	other p	rerequis	sites	Pleas	e consult with cours	e advisory service in	advance.							
07-MV-					gy and Natural Scie									
MINT5-152-m01	ECTS	6	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	graduate					
	Courses			S (3) Module taught in: German and/or English Course type: might also be offered in V, Ü, P, R or E format										
	Method of assessment			Successful completion as certified by the lecturer Language of assessment: German and/or English										
	other prerequisites			Pleas	Please consult with course advisory service in advance.									

07-MV4-152-m01	Specia	Subjec	t Studies	outsic	de Natural Sciences	4						
	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 Course type: might also be offered in V, Ü, P, R or E format							
	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	rerequis	sites	Pleas	e consult with cours	se advisory service in advance.						
07-MV4B-152-m01	Specia	l Subjec	t Studies	outsic	utside Natural Sciences 4B							
	ECTS	5	Duratio	n	1 semester	Method of grading (not) successfully completed	Modul level	graduate				
	Courses			S (2) Module taught in: German and/or English Course type: might also be offered in V, Ü, P, R or E format								
	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	rerequis	sites	Please consult with course advisory service in advance.								
07-DR4-152-m01	Teachi	ng 4	,			<u>, </u>						
	ECTS	5	Duratio		1 semester	Method of grading (not) successfully completed	Modul level	undergraduate				
	Courses			S (3) Module taught in: German and/or English Course type: might also be offered in V, Ü, P, R or E format								
	Method of assessment			Successful completion as certified by the lecturer Language of assessment: German and/or English								
	other prerequisites			Pleas	Please consult with course advisory service in advance.							

Focus Subject Cher	nistry (6	60 ECTS	credits)									
08-AC-FK-152-m01	Solid S	State Ch	emistry									
	ECTS	3	Duratio	า	1 semester	Method of grading numeric	al grade	Modul level	undergraduate			
	Course	es		V (2)	V (2)							
	Metho	d of ass	essment	a) written examination (approx. 90 to 180 minutes) or								
				b) ora	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							
					ai examination in § g (approx. 20 page		prox. 15 minutes per o	candidate) or				
				e) pre	esentation (approx	x. 30 minutes)						
				Langi	uage of assessme	nt: German and/or English						
	Referre	ed to in I	LPO I		ll Nr. 1 h)				-			
				§ 22 § 62	II Nr. 2 f)							
00 00 452 mod	Organi	ic Chem	ictn	9 62	I INI. 1							
08-0C4-152-m01	ECTS	5	Duration		1 semester	Method of grading numeric	al grado	Modul level	undergraduate			
	Course		Duration		+ Ü (2)	Method of grading numeric	at grade	Modul level	undergraduate			
			occmont	<u> </u>		(approx. 90 to 180 minutes) or						
	Metho	u oi ass	essillelli			one candidate each (20 to 30 m	inutes) or					
				c) ora	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							
	Doforro	nd to in I	L DO I		§ 22 II Nr. 1 h)							
	Kelelle	Referred to in LPO I			§ 22 Nr. 1 n) § 22 Nr. 2 f)							
					§ 62 Nr. 2							
08-PC-MBS-152-	Moleci	ular stru	cture and	spect	roscopy							
mo1	ECTS	5	Duratio	า	1 semester	Method of grading numeric	al grade	Modul level	undergraduate			
	Course	es		V (2)	+ Ü (2)			-				
	Metho	d of ass	essment	a) wr	itten 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								
				d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)								
				Language of assessment: German and/or English								
				creditable for bonus								
	Referre	ed to in I	LPO I	§ 62	Nr. 1							

o8-For-		al Rese	arch Cour	se for	Grammar School Tea	achers				
sch-LAGY-152-mo1	ECTS	8	Duratio	1	1 semester	Method of grading (not) successfully completed	Modul level	undergraduate		
	Course	S		P (16)						
	Method	d of ass	essment	Log (approx. 20 pages) Language of assessment: German and/or English						
	other prerequisites			Depending on their choice of topic, students who are writing their Hausarbeit (thesis) pursuant to Section 29 LPO I (examination regulations for teaching-degree programmes) in the vertieft studiertes Fach (subject studied with a focus on the scientific discipline) Chemie (Chemistry) are highly recommended to complete module o8-Forsch-LAGY directly before completing module o8-Ch-HA-GY.						
	Additional Information			Addit	ional information on	n module duration: block placement / block taught p	oractical course	with a duration of 30 days.		
	Referre	d to in	LPO I	§ 62	Nr. 4					
08-AC-ELO-152-	Elemen	tal Org	anic Chen	nistry						
mo1	ECTS 5 Duration			1	1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Course	S		V (2)	(2) + Ü (1)					
	Referred to in LPO I			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 § 22 II Nr. 1 h) § 22 II Nr. 2 f) § 22 II Nr. 3 f)						
08-0C3-152-m01	Organi		istry 3					_		
	ECTS	6	Duratio		1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Course			$V(2) + \ddot{U}(2)$						
	Method of assessment			a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English						
	Referred to in LPO I			§ 22	II Nr. 1 h) II Nr. 2 f) II Nr. 3 f)					

08-TC-152-m01	Quantı	um Cher	mistry								
	ECTS	3	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	!S		V (2)	+ Ü (1)			,			
	Method	d of ass	essment	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English							
	D 6			credi	table for bonus				_		
	Referre	ed to in I	LPO I	§ 22 Nr. 1 h) § 22 Nr. 2 f) § 22 Nr. 3 f)							
08-PC-SBL1-152-	Symme	etry, ch	emical bo	nding	and light - Part 1						
mo1	ECTS	6	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			V (3)	+ Ü (2)			•	*		
	Method	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							
	Referred to in LPO I			§ 22 § 22	II Nr. 1 h) II Nr. 2 f) II Nr. 3 f)						
o8-ACM1-161-mo1											
		10	Duration		2 semester	Method of grading	numerical grade	Modul level	graduate		
	Course				S (3) + 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							
08-ACPM-161-m01	Inorga	nic Che	mistry pra	ctical	course for advance	ed d			·		
	ECTS	10	Duration	1	1 semester	Method of grading	(not) successfully con	npleted Modul level	graduate		
	Courses			P (24) Module taught in: German or English							
	Method of assessment			report on practical course (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English							
	Additional Information			Additional information on module duration: block taught lab course with approx. 40 working days.							
MINT Teacher Education F	JMU Würzburg • generated 02-Aug-2025 • exam. reg. data record 64 i22 - - H 2016 page 30 / 107										

08-SCM3-152-m01	Bioorganic Chemistry										
	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		S (3)	S (3)						
	Method	d of asso	essment	b) ora c) ora	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	tate che	emistry ar	nd inor	ganic materials						
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		S (3)							
				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-OCM-SYNT-161-			1			1		1			
mo1		5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			S (2) + Ü (1) Module taught in: German or English							
	Method of assessment			a) written examination (approx. 90 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-OCM-AKP1-161-	Advanc	ed Rese	earch Pro	ject Or	ganic Chemistry						
mo1	ECTS	10	Duratio	า	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses			P (20) Module taught in: German or English							
	Method of assessment			Log (approx. 15 to 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English							

08-OCM-FM-161-	Organic	. Functi	onal Mate	erials						
mo1	ECTS	5	Duration	n .	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses	S		S (3)						
	Method	l of asse	essment	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English						
o8-PCM1a-161-	Laser S	pectros	сору							
mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses	S		S (2) - Modu	+ Ü (1) lle taught in: Germa	n or English				
	Method of assessment			b) ora	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) Language of assessment: German and/or English					
o8-PCM1b-161-	Advanc	ed Phys	sical Cher	nistry	(Lab)					
mo1	ECTS	5	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate	
	Courses			P (4) Module taught in: German or English						
	Method	l of asse	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						
	Additio	nal Info	rmation	Addit	ional information or	module duration: bl	ock taught lab course with app	rox. 20 working	g days.	
08-PCM2-161-m01	Statisti	cal Med	hanics a	nd Reaction Dynamics						
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses	S		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						

o8-PCM3-161-mo1	Nanoso	ale Ma	terials			,			-				
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S			S (2) + Ü (1) Module taught in: German or English								
	Method	d of ass	essment	b) ora c) talk Langu	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	Ultrafast spectroscopy and quantum-control											
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S			+ Ü (1) ıle taught in: Germar	n or English							
	Method	d of ass	essment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes) Language of assessment: German and/or English									
	other prerequisites			Prior	completion of modu	les o8-PCM1a and o8	3-PCM1b recommended.						
08-PCM5-161-m01	Physica	al Chem	istry of S	upramolecular Assemblies									
	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		S (2) + \ddot{U} (1) Module taught in: German or English									
	Method	d of ass	essment	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-PCM6-161-m01	Physica	al Chem	istry (Adv	anced	Lab)								
	ECTS	5	Duration	า	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Courses			P (4) Module taught in: German or English									
	Method	d of ass	essment	presentation (approx. 20 minutes) Language of assessment: German and/or English									
	Additio	nal Info	rmation	Addit	ional information on	module duration: bl	ock taught lab course with app	rox. 20 working	g days.				

o8-BC-	Molecu	lar Biol	ogy for A	dvance	d Students			-			
MOLMC-161-mo1	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	5		V (2) -	+ Ü (1)			*			
				b) ora c) ora d) log e) pre Langu	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English						
o8-BC-VPMM-161-	Practica	al cours	e "Molec	ular M	achines" for advanc	ed students					
mo1	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	S		P (10)							
	Method of assessment				Log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English						
	Modules successfully completed			08-BC	o8-BC-MOLP						
	Additio	nal Info	rmation	Additi	onal information on	module duration: bl	ock taught lab course v	with approx. 40 working	days.		
o8-BC-VPPD-161-	Practical course "Protein Degradation in Eukaryotes" for advanced students										
mo1	ECTS	10	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		_	P (10)							
	Method of assessment			Log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English							
	Modules successfully completed		ssfully	o8-BC-MOLP							
	Additio	nal Info	rmation	Additional information on module duration: block taught lab course with approx. 40 working days.							
08-BC-VPRB-161-	Practica	al cours	e "RNA B	iochen	nistry" for advanced	students					
mo1	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	S		P (10)							
	Method of assessment			Log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English							
	Modules successfully completed			o8-BC-MOLP							
	Additional Information			Additi	ional information on	module duration: bl	ock taught lab course v	with approx. 40 working	g days.		

08-BC-VPSB-161-	Practical cou	rse "Struct	ural Bio	ology" for advanc	ed students						
mo1	ECTS 10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses		P (10)								
	Method of as	sessment		og (approx. 20 pages) and talk (approx. 15 minutes)							
					t: German and/or English						
	Modules suc completed		_	8-BC-MOLP							
				Additional information on module duration: block taught lab course with approx. 40 working days.							
08-PH-KAC-152-	Clinical-anal		<u> </u>								
mo1	ECTS 5	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses		V (3)			1					
	Method of as	sessment			prox. 120 minutes) t: German and/or English						
08-PH-KACP-152-	Practical cou	rse of clini	cal-anal	lytical Chemistry							
mo1	ECTS 5	Duratio		1 semester	Method of grading (not) successfully completed	Modul level	undergraduate				
	Courses		P (5)								
	Method of as	sessment	and as	/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) Language of assessment: German and/or English							
08-FMM-MP-161-	Lab Course M	laterial Sci	ence			,					
mo1	ECTS 5 Duratio		n	1 semester	Method of grading (not) successfully completed	Modul level	graduate				
	Courses		P (8)								
	Method of as	sessment	and as	Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical performance (2 to 4 random examinations) Language of assessment: German and/or English							
08-FMM-PA-161-	Project Work	1				,					
mo1	ECTS 5	Duratio	n	1 semester	Method of grading (not) successfully completed	Modul level	graduate				
	Courses	<u> </u>	P (10)			•					
	Method of as	sessment		Log (approx. 15 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English							
o8-FU-Ma-	Material Scie	nce 1 (Bas	ic introd	luction)							
Wi1-152-m01	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Courses	,	V (3) +								
			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								
MINT Teacher Education	PLUS, Elite Network	Bavaria (ENB) (2	2016)		JMU Würzburg • generated 02-Aug-	2025 • exam. reg. data	record 64 i22 - - H 2016 page 35 / 107				

o8-FU-Ma-	Materia	al Scien	ce 2 (The	Mater	ial Groups)							
Wi2-152-mo1	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	!S		V (3) ·	+ Ü (1)	•		`				
	Method	d of ass	essment		a) written examination (approx. 90 to 180 minutes) or							
				b) oral examination of one candidate each (20 to 30 minutes) or								
				c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or								
				e) presentation (approx. 30 minutes)								
				Langu	Language of assessment: German and/or English							
08-FU-NT-152-m01	Chemically and bio-inspired Nanotechnology for Material Synthesis											
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	:S		V (4)	_			·				
	Method	d of ass	essment			approx. 90 to 180 mir						
						ne candidate each (2		1.1.4.				
					l examination in gi		dates (approx. 15 minutes p	per candidate) or				
					sentation (approx							
				Langi	Language of assessment: German and/or English							
o8-FU-Mo-	Molecu	ılar Mat	erials (Le	ture)								
MaV-152-mo1	ECTS 5 Duration			1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	Courses			+ S (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)] as well as talk (approx. 30 minutes), weighted 3:1 Language of assessment: German and/or English								
03-FU-PM1-152-	Polyme	er Chem	istry 1 (Le	cture and Practical Course)								
mo1	ECTS	5	Duration		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								
03-FU-PM2-161-	Polyme	ers II										
mo1	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	·S		S (2)	+ Ü (1)							
	Method of assessment			a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes) Language of assessment: German and/or English								

08-HKM1-152-m01	Organo	- and B	iocatalys	is		,						
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	S	•	S (3)	•		•	•				
	Method	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-HKM2-161-m01	Advanc	ed orga	nometall	ic chemistry and its application in homogeneous catalysis								
	ECTS 5 Duration				1 semester	Method of grading		Modul level	graduate			
	Courses			S (3)					0			
					ıle taught in: Germa	an or English						
	Method	d of ass	essment			approx. 90 to 180 mir						
						ne candidate each (20		andidate) 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	presentation (approx. 30 minutes)							
					Language of assessment: German and/or English reneous catalysis in Inorganic Chemistry"							
08-HKM3AC-161-						<u> </u>		T				
mo1	<u> </u>	5	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses			P (6) Modu	le taught in: Germa	an or English						
	Method	d of ass	essment		report on practical course (approx. 10 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English							
08-HKM30C-161-	Practica	al cours	se "Homo	mogeneous catalysis in Organic Chemistry"								
mo1	ECTS	5	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses	S		P (6) Modu	lle taught in: Germa	an or English						
	Method	d of ass	essment			e (approx. 10 pages) t: German and/or Eng	and talk (approx. 15 minutes) lish					
08-HKM4-161-m01	Advanc	ed tran	sition me	tal che	emistry							
	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	S		S (3)								
	Method	of ass	essment	a) written examination (approx. 90 to 180 minutes) or								
			b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or									
				d) log (approx. 20 pages) or								
				e) presentation (approx. 30 minutes)								
				Language of assessment: German and/or English								

08-MCM1-161-m01	Practic	al cours	se medicii	nal che	emistry							
	ECTS	10	Duratio	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course	S		P (10)								
				Module taught in: German or English								
	Method	d 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 assignments (2 to 4 random examinations) as well as report (30 to 50 pages)							
						:: German and/or Engl		en as report (3c	to 50 pages)			
o8-MCM2a-161-	Pharma	aceutica	al/Medici	nal Chemistry 1								
mo1	ECTS	5	Duration	<u></u> า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (3)	•	•		•	•			
	Method	of ass	essment	a) wri	tten examination (a	approx. 90 to 180 min	utes) 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							
					a) log (approx. 20 pages) or e) presentation (approx. 30 minutes)							
					anguage of assessment: German and/or English							
08-MCM2b-161-	Pharma	aceutica	al/Medici	nal Ch	ll Chemistry 2							
mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course			V (3)	•							
	Method	d of ass	essment	a) wri	tten examination (a	approx. 90 to 180 min	utes) 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	sentation (approx.							
				Language of assessment: German and/or English								
08-SCM1-152-m01	Supran	nolecul		istry (Basics)								
	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course			S (3)								
	Method	d of ass	essment	a) wri	tten examination (a	approx. 90 minutes) o	r					
						ne candidate each (ap :: German and/or Engl						
08-SCM2-161-m01	Supran	- olocul	ar Chomic		actical Course)	: German and/or Engi	1511					
00-3CW2-101-11101		5	Duration		1 semester	Mothod of grading	(not) successfully completed	Modul level	graduate			
	Course		Duration	P (6)	1 Semester	Method of grading	(110t) successibility completed	Modul level	graduate			
	Course	5		Module taught in: German or English								
	Method	of ass	essment									
				and a	ssessment of pract	ical performance (2 to	4 random examinations)		,, teg appress y to be paged easely			
				Language of assessment: German and/or English								
	,			08-SCM1								
	comple	ted										

08-ACM2-161-m01	Bioino	Bioinorganic Chemistry												
	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate						
	Course	S		S (3) Modu	S (3) Module taught in: German or English									
	Method of assessment			b) ora c) ora	a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English									
08-SCM4-161-m01	Supran	nolecul	ar Chemis	try (Ac	lvanced Lab)		,							
	ECTS	5	Duration	1	1 semester	Method of grading (not) successfully completed	Modul level	graduate						
	Course	S		P (6) Modu	lle taught in: Germ	an or English								
	Method of assessment				ntation (approx. 2 uage of assessmen	o minutes) it: German and/or English								
	Modules successfully completed			o8-S0	08-SCM ₂									
	Additio	nal Info	rmation	Addit	ional information o	on module duration: block taught lab course with ap	prox. 20 working	g days.						
08-TCM2-161-m01	Basics and Applications of Quantum Chemistry													
	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	graduate						
	Course		_	` ′	5 (2) + Ü (2)									
	Method of assessment			a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or 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-TCM3-161-mo1		ical Met	hods and		amming			_						
	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	graduate						
	Course			S (2) ·										
	Method of assessment			a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English										

08-TCM4-161-m01	Quantu	m Dyna	mics									
	ECTS	5	Duratio	า	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		S (2) -	+ Ü (2)							
	Method	d of asse	essment			pprox. 90 to 180 minutes) or						
						e candidate each (20 to 30 minutes) or						
					c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or (l) log (approx. 20 pages) or							
					e) presentation (approx. 30 minutes)							
					age of assessment:							
08-TCM1-161-m01	Selecte	Selected Topics in Theoretical Chemistry										
	ECTS 5 Duratio			1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses			S (2) -	+ Ü (2)							
	Method of assessment			a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or 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-TCAP1-161-m01	Theore	tical Ch	emistry -	Projec	Project course quantum chemistry							
	ECTS	5	Duration	า	1 semester	Method of grading (not) successfully completed	Modul level	graduate				
	Course	S		P (5)	•							
	Method	of asse	essment		ntation (approx. 30 ı lage of assessment:	minutes) German and/or English						
	Additio	nal Info	rmation	Addit	ional information on	module duration: block taught lab course with ap	prox. 20 working	g days.				
08-TCAP2-161-m01	Theore	tical Ch	emistry -	Projec	t course quantum dy	ynamics						
	ECTS	5	Duratio	n 1 semester Method of grading (not) successfully completed Modul level graduate								
				P (5)								
	Method of assessment			presentation (approx. 30 minutes) Language of assessment: German and/or English								
	Additional Information			Additional information on module duration: block taught lab course with approx. 20 working days.								

08-OCM-NAT-172-	Modern Aspects of Natural Product Chemistry and Biological Chemistry												
mo1	ECTS 5 Du	ıration	1 semester	Method of grading numerical grade	Modul level	graduate							
	Courses	S /M	odule taught in: Ge	erman or English									
	Method of assessr	b) (c) (d	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 a cation of places	ces jec	Master's degree programme Chemie (Chemistry): no limitation. Master's degree programme Biochemie (Biochemistry): 20 places. Places will be allocated according to the number of subject semesters; among applicants with the same number of subject semesters, places will be allocated by lot A waiting list will be maintained and places re-allocated as they become available.										
08-BC-MOLP-172-	Molecular Biology	laborato	y course										
mo1	ECTS 10 Du	ıration	1 semester	Method of grading numerical grade	Modul level	undergraduate							
	Courses	P (n (approx. 45 to 90 minutes) or									
		c) c d) c e) p f) p ma Lar Ass	b) log (10 to 20 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 to 20 minutes per candidate) or e) presentation (20 to 30 minutes) or f) practical examination (on average approx. 2 hours; time to complete will vary according to subject area but will not exceed a maximum of 4 hours) Language of assessment: German and/or English Assessment offered: Once a year, winter semester										
	Participants and a cation of places	Sel nui ave lot. nui bee Che gre bei wa ter me wit	mber of available perage grade of succe. Quota 2 (one third mber of subject sercome available. emie (Chemistry), Me programme Cherce of subject semestiting list will be ma procedure 1 is finise MINT-Lehramt PLU h the same numbe	istry) 24 places. chemie (Biochemistry), Bachelor's (180 EColaces, places will be allocated according to cessfully completed modules; among applied of places): number of subject semesters mesters, places will be allocated by lot. A waster's and MINT-Lehramt PLUS Master's mie (Chemistry) (120 ECTS credits) will be cotters. Among applicants with the same numaintained and places re-allocated by lot as shed completely, theses places will be discorded according to the same shed completely, these shaces will be allocated according to the same and places will be allocated according to the same sters, places will be allocated by become available.	o the following quotas: Quo cants with the same averag of the respective applicant; vaiting list will be maintained of places. Selection processionsidered first: Places will ber of subject semesters, places become available. 2. In tributed among the students or ding to the number of subject semination of subject seminations.	ota 1 (two thirds of places): current the grade, places will be allocated by among applicants with the same and places re-allocated as they so that the same are allocated as they so that the same allocated according to the numblaces will be allocated by lot. And case that there are places left afsin the Master's degree programment of the same sters. Among applicants							

08-MCM3-172-m01													
	ECTS	5	Duration	ı	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	S			S (2) + Ü (1) Module taught in: German or English								
	Method	d of asse	essment		presentation (approx. 30 minutes) with discussion Language of assessment: German and/or English								
	Participants and allo- cation of places			the sa will b Place seme ces w	places. 16 places for students of the Master's degree programme Chemie (Chemistry): Places will be allocated according to the same number of subject semesters; students who have chosen Medizinische Chemie (Medicinal Chemistry) as their focus will be given preferential consideration. 6 places for students of the Master's degree programme Biochemie (Biochemistry): Places will be allocated according to the number of subject semesters; among applicants with the same number of subject semesters, places will be allocated by lot.2 places for students of the Master's degree programme MINT-Lehramt PLUS: Places will be allocated according to the number of subject semesters; among applicants with the same number of subject semesters, places will be allocated by lot; a waiting list will be maintained and places re-allocated by lot as they become available.								
Focus Subject Com	outer Science (60 ECTS credits)												
10-I-TIV-152-m01	Theoretical Informatics												
	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Course	S		V (4)									
	Method of assessment			written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate).									
	Referre	d to in L			Nr. 1 a) Nr. 1 a)								
10-I-TIT-152-m01	Tutoria	l Theore	etical Info	rmatio	:s								
	ECTS	5	Duration	ı	1 semester	Method of grading (not) successfully completed	Modul level	undergraduate					
	Course	S		Ü (2)									
	Method of assessment			b) wri	a) completion of approx. 11 exercises with approx. 4 components each (50% to be completed correctly) or b) written examination (approx. 180 to 240 minutes) Method of assessment to be selected by the candidate.								
			§ 49 Nr. 1 a) § 69 Nr. 1 a)										

10-I-RAK-152-m01	Compu	ter Arch	itecture								
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V (2)	+ Ü (2)						
	Method	d of ass	essment	If ann of one date) Langu	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus						
	Referred to in LPO I			§ 22 l	§ 22 II Nr. 3 b) § 69 I Nr. 1 c): Rechnerarchitektur						
10-I-RALV-152-m01	Digital	comput	ter systen	15							
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V (4)	•	•		-			
	Method	d of ass	essment	If ann	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate).						
	other p	rerequi	sites	Simu	taneous completion	on of module 10-I-RALT	is recommended.				
	Referred to in LPO I				l Nr. 3 b) Nr. 1 c): Rechnera	rchitektur					
10-I-RALT-152-m01	Tutoria	l Digita	l compute	omputer systems							
	ECTS	5	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Course	S		Ü (2)	Ü (2)						
	Method	d of ass	essment	b) wri	a) completion of approx. 11 exercises with approx. 4 components each (50% to be completed correctly) or b) written examination (approx. 180 to 240 minutes) Method of assessment to be selected by the candidate.						
	Referre	d to in l	_PO I	§ 22 l	l Nr. 3 b)						
10-l-lÜ-152-m01		ation Tr	ansmissio	n	-						
	ECTS	10	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course			٠, ١,	+ Ü (2)			,			
				written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). creditable for bonus							
	Referred to in LPO I			§ 22 l	§ 22 II Nr. 3 b)						

10-I-HWP-152-m01	Practica	al cours	e in hard	ware				-					
	ECTS	10	Duration	n	1 semester	Method of grading (not) successfully completed	Modul level	undergraduate					
	Courses	5		P (6)	P (6)								
	Method	l of ass	essment		portfolio: completion of approx. 3 to 10 project assignments (approx. 250 hours total) and presentation of results (approx. 10 minutes per project)								
	Referre	d to in l	_PO I		3 22 II Nr. 3 b)								
10-l-LOG-152-m01	Logic for informatics												
	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Courses	S	-	V (2) ·	+ Ü (2)	·	•						
				If ann of one date). Langu credit	rritten examination (approx. 60 to 120 minutes). I announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination fone candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candiate). I anguage of assessment: German and/or English reditable for bonus								
	Referre	d to in l	_PO I	- 13 //									
10-I-AGT-152-m01	Algorithmic Graph Theory												
	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Courses			<u> </u>	+ Ü (2)								
	Method	l of ass	essment	If ann of one date). Langu	ounced by the lectue candidate each (a	rox. 60 to 120 minutes). For at the beginning of the course, the written exam pprox. 20 minutes) or an oral examination in groups: German and/or English	ination may be of 2 candidate	replaced by an oral examination s (approx. 15 minutes per candi-					
	Referre	d to in l	PO I	§ 22 l	Nr. 3 b)								
10-l-lCG-152-m01	Interact	tive Cor	nputer Gr	aphics									
	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Courses	S	_	V (2) ·									
	Method	Method of assessment			written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus								
	Referre	d to in l	PO I	§ 22 l	l Nr. 3 b)								

10-I-WBS-152-m01	Knowled	lge-ba	sed Syste	ems			,					
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Courses			V (2)	+ Ü (2)	·	•					
	Method	of ass	essment	If ann	ounced by the lect	prox. 60 to 120 minutes). urer at the beginning of the course, the written e	examination may be	replaced by an oral examination				
				of on date) Langi	anguage of assessment: German and/or English creditable for bonus							
	Referred	l to in I	LPO I	§ 22 l	I Nr. 3 b)							
10-I-DM-152-m01	Data Mi	ning										
	ECTS	5	Duration	า	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Courses			V (2)	+ Ü (2)							
	Method of assessment			If anr of on date) Langi	ritten examination (approx. 60 to 120 minutes). announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination fone candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candiate). anguage of assessment: German and/or English reditable for bonus							
	Referred	l to in I	LPO I	§ 22	l Nr. 3 b)							
10-l-00P-152-m01	Object o	Object oriented Programming										
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Courses			V (2)	+ Ü (2)		•					
	Method of assessment			If anr of on date) Langi	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 m date). Language of assessment: German and/or English creditable for bonus							
	Referred	l to in I	LPO I	§ 22 l	I Nr. 3 b)							
10-I-KT-152-m01	Comput	ationa	l Complex	tity								
	ECTS	5	Duratio	า	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Courses			V (2)	+ Ü (2)		·					
	Method of assessment			If anr of on date) Lang	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus							
	Referred to in LPO I			§ 22	l Nr. 3 b)							

10-l-KD-152-m01	Cryptog	raphy a	and Data	Securi	ty									
	ECTS	5	Duration	n .	1 semester	Method of grading numerical grade	Modul level	undergraduate						
	Courses			V (2) -	+ Ü (2)		·							
	Method	of asse	essment	If ann of one date).	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus									
	Referred	to in L	PO I		3 22 II Nr. 3 b)									
10-l-3D-152-m01			Processi											
	ECTS		Duration		1 semester	Method of grading numerical grade	Modul level	undergraduate						
	Courses			V (2) -	+ Ü (2)	,	•	-						
	Method	of asse	essment	If ann of one date). Langu	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	PO I	§ 22 II Nr. 3 b)										
10-I-RK-152-m01		ter Networks and Communication Systems												
	ECTS	8	Duration		1 semester	Method of grading numerical grade	Modul level	undergraduate						
	Courses			V (4) -										
	Method of assessment written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replace of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approdate). Language of assessment: German and/or English creditable for bonus													
	Referred	to in L	PO I	§ 22 l	Nr. 3 b)									
10-I-SEM1-152-m01	Seminar	- Sele	cted Topi	cs in C	omputer Science 1									
	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	undergraduate						
	Courses			S (2)										
	Method				written elaboration (approx. 10 to 15 pages) and presentation (approx. 30 to 45 minutes) with subsequent discussion on a topic from the field of computer science Language of assessment: German and/or English									
	Referred to in LPO I			§ 22 l	l Nr. 3 b)			§ 22 II Nr. 3 b)						

10-I-PV-152-m01	Project	t Preser	ntation									
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	25		S (5)	*		•	•				
	Metho	d of ass	essment		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							
	Referred to in LPO I				22 II Nr. 3 b)							
10-I=AA-152-m01	Advanced Automation											
	ECTS	8	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es.		V (4)	+ Ü (2)							
	Metho	d of ass	essment		en examination (ap	prox. 60 to 120 minut	es)					
	Additio	onal Info	ormation		ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits):							
		ed to in			22 II Nr. 3 b)							
10-l=AGIS-161-m01	Algorithms for Geographic Information Systems											
	ECTS	5	Duration	,	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es es		V (2)	+ Ü (2)							
	Method of assessment			written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an ord of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutate). 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,IS,HCI								
10-l=AG-161-m01	Compu	ıtationa	l Geometi	y				'				
	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	<u>!</u> S		V (2)	+ Ü (2)							
	Method of assessment			If ann 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 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,HCI,GE								

10-l=APA-161-m01	Approx	imatio	n Algorith	ms			1				
	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		V (2)	+ Ü (2)		*				
	Method	d of ass	essment	If anr of on date) Lang	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus						
	Additio	nal Info	ormation		ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): T,IT,GE						
		d to in		§ 22	I Nr. 3 b)						
10-I=AUT-161-m01	Automa	ata The	ory								
	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	graduate			
_	Course	S		V (2)	/ (2) + Ü (2)						
	Method of assessment			If anr of on date) Langu credi	If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examof one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes pedate). Language of assessment: German and/or English creditable for bonus						
	Additio	nal Info	ormation	Focus	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, IT, ES, HCI, GE						
10-l=AVS-161-m01	Avionic	:s Syste	ems								
	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	graduate			
	Course				+ Ü (2)						
				If anr of on date) Lange	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus						
	Additio	nal Info	ormation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): ES,LR							

10-l=BER-161-m01	Compu	tability	Theory								
	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		V (2)	+ Ü (2)		•	, -			
	Method	d of ass	essment	If anr of on date) Langu	rritten examination (approx. 60 to 120 minutes). In announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination from candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). In anguage of assessment: German and/or English reditable for bonus						
	Additio	nal Info	rmation		ses available for stu I,IT,IS,GE	idents of the Master's programme Informatik (Com	puter Science, 12	o ECTS credits):			
10-I=CB-161-m01	Compil	er Cons	truction				•				
	ECTS 5 Duratio			า	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		V (2)	(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 candidate). Language of assessment: German and/or English creditable for bonus							
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE,IT,IS,GE							
10-l=DDB-161-m01	Deductive Databases										
	ECTS	8	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		V (4)	+ Ü (2)						
	Method	d of ass	essment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus							
	Additio	nal Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,SE,IT,IS							

10-l=EL-161-m01	E-Learn	ning	1									
	ECTS	5	Duration	า	1 semester	Method of grading n	umerical grade	Modul level	graduate			
	Course	S		V (2)	+ Ü (2)							
	Method	d of ass	essment	If ann of on date) Langu	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 one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per canditate). anguage of assessment: German and/or English editable for bonus							
	Additio	Additional Information			ses available for st IS,HCI,GE	udents of the Master's pr	ogramme Informatik (Computer Science, 12	o ECTS credits):			
10-l=ES-161-m01	Embed	ded Sy	stems									
	ECTS	8	Duration	า	1 semester	Method of grading n	umerical grade	Modul level	graduate			
	Course	S		V (4)	(4) + Ü (2)							
		Method of assessment			If announced by the lecturer at the beginning of the course, the written examination may be replaced by an ora of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minudate). Language of assessment: German and/or English creditable for bonus							
	Additio	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	Analysis and Design of Programs										
	ECTS	5	Duration	1	1 semester	Method of grading n	umerical grade	Modul level	graduate			
	Course	S		V (2)	V (2) + Ü (2)							
				If ann 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 candidate). Language of assessment: German and/or English creditable for bonus							
	Additio	nal Info	ormation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE,IS,ES,GE								

10-l=IR-161-m01	Informa	ation Re	etrieval									
	ECTS	5	Duratio	า	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (2) -	+ Ü (2)							
	Method	d of ass	essment	If ann of one date). Langu	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus							
	Additio	nal Info			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): T,IS,HCI,GE							
10-l=KT2-161-m01	Compu	tationa	l Complex	ity II								
	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course				$V(2) + \ddot{U}(2)$							
	Method	d of ass	essment	If ann of one date). Langu	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus							
	Additio	nal Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, SE, IT, ES								
10-l=Kl1-161-m01	Artificia	al Intell	igence 1									
	ECTS	5	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	_		V (2) -								
	Method	d of ass	essment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus								
	Additio	nal Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,SE,IS,HCI								

10-l=Kl2-161-m01	Artificia	al Intel	ligence 2									
	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (2)	+ Ü (2)	•						
	Method	d of ass	essment	If ann of 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 candidate). Language of assessment: German and/or English creditable for bonus							
				AT,SE	,IS,HCI,GE	dents of the Master's programme Informatik (Con	nputer Science, 12	o ECTS credits):				
10-l=LVS-161-m01		nance E	valuation	of Dis	tributed Systems							
	ECTS 8 Duratio				1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (4)	$V(4) + \ddot{U}(2)$							
				written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus								
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,IT,GE								
10-l=ML-161-m01	Mather	natical	Logic									
	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (2) + Ü (2)								
	Method	d of ass	essment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus								
	Additio	nal Info	ormation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,SE,IS,ES								

10-l=MI-161-m01	Medica	l Inforn	natics					1			
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		V (2)	+ Ü (2)		,				
	Method				written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candilate). anguage of assessment: German and/or English reditable for bonus						
				SE,IT,	IS,HCI,GE	dents of the Master's programme Informatik (Co	omputer Science, 120	o ECTS credits):			
10-I=PEB-161-m01	Perforn	nance E	ngineerin	g & Be	enchmarking of Com	puter Systems					
	ECTS	5	Duratio	1	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		V (2)	+ Ü (2)	·	,				
	Method				If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus						
		Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE,IT,ES,HCI,GE						
10-l=PM-161-m01	Profess	ional P	roject Ma	nagen	nent			_			
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		V (2)							
	Method	d of ass	essment	If ann of one date) Langu	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus						
	other p	rerequi	sites	Simu	ltaneous completior	of module 10-I=PRJ is recommended.					
	Additional Information			Focus HCI.	ses available for stud	dents of the Master's programme Informatik (Co	omputer Science, 120	o ECTS credits): SE, IT, IS, ES, LR,			

10-I=RAM-161-m01	Compu	iter Arit	hmetic	,								
	ECTS	5	Duration	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	!S		V (2) + Ü (2)								
	Method	d of ass	essment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus								
	Additio	onal Info	ormation		Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits):							
10-l=RO1-152-m01	Roboti	CS 1										
	ECTS	8	Duration	1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses			V (4) + Ü (2)								
	Metho	d of ass	essment	written examination (a creditable for bonus	pprox. 60 to 90 minutes)							
	Additio	onal Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): S,ES,LR,HCI								
	Referre	ed to in I	LPO I	§ 22 II Nr. 3 b)								
10-l=RO2-152-m01	Robotics 2											
	ECTS	8	Duration		Method of grading numerical grade	Modul level	graduate					
	Course	_		V (4) + Ü (2)								
	Metho	d of ass	essment	written examination (approx. 60 to 90 minutes) creditable for bonus								
	Additio	onal Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT, ES, LR								
	Referre	ed to in I	LPO I	§ 22 II Nr. 3 b)	, j							
10-I=ST-161-m01	Discrete Event Simulation											
	ECTS	8	Duration		Method of grading numerical grade	Modul level	graduate					
	Course			V (4) + Ü (2)								
	Method of assessment			written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus								
	Additional Information			Focuses available for s IT,IS,ES,GE	students of the Master's programme Informatik	(Computer Science, 12	o ECTS credits):					

10-l=SAR-161-m01	Software Architecture												
	ECTS	5	Duration	 1	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	!S	_	V (2)	+ Ü (2)		•	1-					
	Metho	d of ass	essment	If anr of on date) Langi	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus								
				SE,IT,	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE,IT,ES								
		ed to in I		_	§ 22 II Nr. 3 b)								
10-l=SSD-161-m01		<u>_</u>											
	ECTS 8 Duratio				1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	!S		V (4) + Ü (2) Module taught in: English									
	Method of assessment			written examination (approx. 60 to 120 minutes) Language of assessment: English creditable for bonus									
10-l=VG-161-m01	Visuali	zation o	of Graphs										
ļ	ECTS	5	Duration	า	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	:S	-	V (2)	+ Ü (2)	·							
	Method of assessment			If 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 candidate). Language of assessment: German and/or English creditable for bonus								
				Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,IT,HCI,GE									
	Referre	d to in l	PO I	§ 22 l	l Nr. 3 b)								

10-l=A-	Selecte	d Topi	cs in Algor	rithms	and Theory			'					
KAT-152-m01	ECTS	5	Duration	<u> </u>	1 semester	Method of grading nume	rical grade	Modul level	graduate				
	Courses	5	•	V (2)	+ Ü (2)			•					
	Method	of ass	essment		written examination (approx. 60 to 120 minutes).								
					If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination								
					of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate).								
					Language of assessment: German and/or English								
					table for bonus	John an ana, or <u>zing</u> ilon							
	Referred	d to in	LPO I	§ 22	§ 22 II Nr. 3 b)								
10-l=AK-	Selecte	d Topi	cs in Softw	vare E	ngineering								
SE-161-m01	ECTS	5	Duration	1	1 semester	Method of grading nume	rical grade	Modul level	graduate				
	Courses	5		V (2)	+ Ü (2)			•	*				
	Method	of ass	essment			prox. 60 to 120 minutes).							
									replaced by an oral examination				
				of on date)		approx. 20 minutes) or an ora	il examination in group:	s of 2 candidates	s (approx. 15 minutes per candi-				
					date). Language of assessment: German and/or English								
					table for bonus								
	Additio	nal Info	ormation	Focus	ses available for stu	udents of the Master's progra	mme Informatik (Comp	uter Science, 12	o ECTS credits): SE.				
10-I=AKIT-161-m01	Selected Topics in Internet Technologies												
	ECTS	5	Duration	1	1 semester	Method of grading nume	rical grade	Modul level	graduate				
	Courses	5		V (2)	+ Ü (2)								
	Method	of ass	essment			prox. 60 to 120 minutes).							
					If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination								
				or on date)	of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate)								
						t: German and/or English							
				credi	table for bonus								
	Additio	nal Info	ormation	Focus	ses available for stu	udents of the Master's progra	mme Informatik (Comp	uter Science, 12	o ECTS credits): IT.				
10-l=AKIS-161-m01	Selecte	d Topi	cs in Intell	igent	Systems								
	ECTS	5	Duration	า	1 semester	Method of grading nume	rical grade	Modul level	graduate				
	Courses	5	·	V (2)	+ Ü (2)								
	Method	of ass	essment			prox. 60 to 120 minutes).							
				If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination									
				of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidates)									
				date). Language of assessment: German and/or English									
					creditable for bonus								
	Addition	nal Info	ormation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IS.									
L							•		1				

10-l=A-	Selecte	d Topic	s in Embe	dded	Systems			1	-		
KES-161-m01	ECTS	5	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	S	•	V (2)	+ Ü (2)		•	·			
	Method	of ass	essment	If anr	ounced by the lec		of the course, the writt		replaced by an oral examination		
				date) Langi	f one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes p ate). anguage of assessment: German and/or English reditable for bonus						
	Additio	nal Info	rmation	Focus	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): ES.						
10-I=AKL- R-161-m01	Selecte	d Topic	s in Aero	space	Engineering						
	ECTS 5 Duratio			า	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			V (2)	+ Ü (2)						
	Method of assessment			written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Separate written examination for Master's students. Language of assessment: German and/or English creditable for bonus							
	Additio	nal Info	rmation	Focus	ses available for st	udents of the Master's	s programme Informatil	k (Computer Science, 12	o ECTS credits): LR.		
10-l=AKH-	Selecte	d Topic	s in HCI								
Cl-161-m01	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	Courses		V (2) + Ü (2) Course type: alternatively S (2) or R (2) instead of Ü (2)							
	Method of assessment			If anr of on date) Lang	e candidate each (turer at the beginning	r an oral examination i		replaced by an oral examination s (approx. 15 minutes per candi-		
	Additio	nal Info	rmation	Focus	ses available for st	udents of the Master's	s programme Informatik	k (Computer Science, 12	o ECTS credits): HCI.		
10-l=AKII-161-m01	Selecte	d Topic	s in Com	outer S	Science						
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	S		V (2)	+ Ü (2)						
	Method of assessment			written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus							
MINT Teacher Education	PLUS, Elite N	Network Ba	ıvaria (ENB) (2	2016)			JMU Würzburg • generate	ed 02-Aug-2025 • exam. reg. data	record 64 i22 - - H 2016 page 57 / 107		

06-HCI=BS-152-	Multimo	dal User Interf	aces								
mo1	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses		V (2)	+ Ü (2)	·						
	Method o	of assessment		presentation of project results							
				Language of assessment: German and/or English							
	D - f l	t- :- I DO I	0.00.	creditable for bonus							
- C UCL Fin		to in LPO I		§ 22 Nr. 3 b) -Computer Interaction							
06-HCl=Ein- f-152-m01				<u>'</u>	Made de Complès de la completa	100 - deel 11	Lauradorata				
1-152-11101	ECTS 5	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses	<u> </u>		+ Ü (2)		_	_				
	Method	of assessment		entation of project re	esuits : German and/or English						
				table for bonus	. German and/or English						
	Referred	to in LPO I	§ 22	22 II Nr. 3 b)							
06-HCl=IS-152-	3D User Interfaces										
mo1	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses		V (2)	+ Ü (2)	·						
	Method	of assessment		entation of project re							
				Language of assessment: German and/or English creditable for bonus							
	Deferred	to in LPO I		§ 22 II Nr. 3 b)							
06-HCl=ST-152-		e Interactive S									
mo1			<u> </u>	1 semester	Method of grading numerical grade	Modul level	graduate				
	ECTS 5	Duratic		+ Ü (2)	Method of grading numerical grade	Modulitevel	graduate				
		of assessment	` '		vrov. 60 to 120 minutos)						
	Method	oi assessillelli	Lang	written examination (approx. 60 to 120 minutes) Language of assessment: German and/or English							
				creditable for bonus							
	Referred	to in LPO I	§ 22	II Nr. 3 b)							
10-I-REP-152-m01	Exam Tut	torial for the G	erman	Staatsexamen							
	ECTS Z	Duratio	n	2 semester	Method of grading (not) successfully completed	Modul level	undergraduate				
	Courses										
	Method o	of assessment	One	One exercise per area covered in the state examination							
	Referred	to in LPO I		§ 22 II Nr. 2 f)							
			§ 22	§ 22 II Nr. 3 b)							

Focus Subject Com	puter Ma	themat	ics (60 E	CTS cre	edits)							
10-M-HHA-Ü-162- m01	Overvie plex An		er Analys	is for T	eaching Degree (Ge	rman Gymnasium) (I	Differential Equations and Co	mplex Analysis,	or Advanced Analysis and Com-			
	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	5		V (4) +								
	Method of assessment				oral examination of one candidate each (20 to 40 minutes)							
				Language of assessment: German and/or English eometry (Differential Geometry or Projective Geometry) for Teaching Degree (German Gymnasium)								
10-M-HAG-Ü-162- m01					· · · · · · · · · · · · · · · · · · ·			<u> </u>				
		10	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			V (4) +					_			
	Method	i or asse	ssment			andidate each (20 to German and/or Engl						
10-M-HSA-Ü-162-	Overvie	w Stoch	astics a	nd App	lied Mathematics (N	umerical Mathemat	ics 1 or Discrete Mathematics	s) for Teaching De	egree (German Gymnasium)			
mo1	ECTS	8	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	5		V (4) +	- Ü (2)							
	Method	l of asse	ssment		oral examination of one candidate each (20 to 40 minutes) Language of assessment: German and/or English							
10-M=AAAN-161-	Applied	Analys	is									
mo1	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			V (4) + Ü (2) Module taught in: German and/or English								
	Method of assessment			b) ora c) oral 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=AAL-	Topics	in Algeb	ra									
G-161-m01	ECTS	10	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5			V (4) + Ü (2) Module taught in: German and/or English							
	Method of 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=ADG-	Differe	ntial Ge	ometry			,						
M-161-m01	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es.			+ Ü (2) le taught in: Germa	ın and/or English						
	Method	d 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=AFT-	Comple	ex Analy	/sis									
H-161-m01	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	25			+ Ü (2) le taught in: Germa	ın and/or English						
	Method of assessment			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=AGMS-161-	Geome	Geometric Structures										
mo1	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	<u>!</u> S		V (4) · Modu	+ Ü (2) le taught in: Germa	ın and/or English						
	Method of assessment			b) ora c) ora Langu Asses	ll examination of on l examination in gro lage of assessment	ne candidate each (ap oups (groups of 2, 15 :: German or English	utes, usually chosen) or oprox. 20 minutes) or minutes per candidate) the course is offered and		emester			
10-M=AIST-161-	Indust	rial Stat	istics 1									
mo1	ECTS	10	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	! S		V (4) - Modu	+ Ü (2) le taught in: Germa	ın and/or English						
	Metho	d of ass	essment	b) ora c) ora Langu Asses	ll examination of on l examination in gro lage of assessment	examination (approx. 90 to 120 minutes, usually chosen) or amination of one candidate each (approx. 20 minutes) or imination in groups (groups of 2, 15 minutes per candidate) of assessment: German or English nt offered: In the semester in which the course is offered and in the subsequent semester for bonus						

10-M=ALTH-161-	Lie Theory									
mo1	ECTS 1	.o Dur	ation	1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses			/ (4) + Ü (2) Module taught in: German and/or English						
	Method o	of assessm	b) c) La As	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) c. 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=ANG-	Numeric	of Large S	stems	of Equations						
G-161-m01	ECTS 1	.o Dur	ation	1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses			(4) + Ü (2) odule taught in: Ger	man and/or English					
	Method o	of assessm	b) c) La As	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) c. 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=AOP-	Basics in	Optimizat	ion	,		,				
T-161-m01	ECTS 1	.o Dur	ation	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			oral examination of oral examination in nguage of assessmo	n (approx. 90 to 120 minutes, usually chosen) or one candidate each (approx. 20 minutes) or groups (groups of 2, 15 minutes per candidate) ent: German or English n the semester in which the course is offered and	in the subsequent so	emester			
10-M=ARTH-161-	Control T	heory								
mo1	ECTS 1	.o Dur	ation	1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses			V (4) + Ü (2) Module taught in: German and/or English						
	Method o	of assessm	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=ASM-	Stochastic Models of Risk Management										
R-161-mo1	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (4) + Modu	· Ü (2) le taught in: Germar	n and/or English						
	Method of ass	sessment	b) ora c) oral 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) c. 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=AST-	Stochastical F	rocesses									
P-161-m01	ECTS 10	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (4) + Modu	- Ü (2) le taught in: Germar	n and/or English						
	Method of ass	sessment	b) ora c) oral 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) c.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=A-	Topology										
TOP-161-mo1	ECTS 10 Duratio			1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (4) + Ü (2) Module taught in: German and/or English								
	Method 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=AVS-	Insurance Ma	thematics	1								
M-161-m01	ECTS 10	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (4) + Ü (2) Module taught in: German and/or English								
	Method of ass	essment	b) ora c) oral Langu Asses	l examination of one examination in gro age of assessment:	nination (approx. 90 to 120 minutes, usually chosen) or ation of one candidate each (approx. 20 minutes) or ation in groups (groups of 2, 15 minutes per candidate) ssessment: German or English ffered: In the semester in which the course is offered and in the subsequent semester bonus						

10-M=AZ-	Time Series Analysis 1										
RA-161-mo1	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	es			V (4) + Ü (2) Module taught in: German and/or English						
	Method	d of ass	essment	b) ora c) ora Langu Asses	a) written examination (approx. 90 to 120 minutes, usually chosen) or a or one candidate each (approx. 20 minutes) or or one candidate each (approx. 20 minutes) or or or al 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=AZTH-161-	Numbe	er Theor	у								
mo1	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	es			+ Ü (2) le taught in: Germa	an and/or English					
				b) ora c) ora Langu Asses credit	n) written examination (approx. 90 to 120 minutes, usually chosen) or n) oral examination of one candidate each (approx. 20 minutes) or n) oral examination in groups (groups of 2, 15 minutes per candidate) nanguage of assessment: German or English nanguage of assessment offered: In the semester in which the course is offered and in the subsequent semester neditable for bonus						
10-M=AGP-	Giovan	ıni Prod	i Lecture (Maste	r)						
C-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	l examination of or l examination in gra lage of assessment	ne candidate each (ap oups (groups of 2, ap t: German or English	ates, usually chosen) or oprox. 15 minutes) or prox. 10 minutes per ca	ndidate)	emester		
10-M=VA-	Selecte	ed Topic	s in Analy	/sis							
NA-161-m01	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	es		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=VAT-	Algebraic Topology										
P-161-mo1	ECTS	10	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	!S			V (4) + Ü (2) Module taught in: German and/or English						
				b) oral c) oral Langua Assess credita	written examination (approx. 90 to 120 minutes, usually chosen) or						
10-M=VFN-		ed Topic			athematics						
M-161-m01	ECTS	10	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			V (4) + Modul	Ü (2) e taught in: Germa	n and/or English					
	Method	d of ass	essment	b) oral c) oral Langua Assess) 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=VGDS-161-	Groups	and th	eir Repres	sentatio	ons				_		
mo1	ECTS	10	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	!S		V (4) + Ü (2) Module taught in: German and/or English							
	Method	d of ass	essment	b) oral c) oral Langua Assess	examination of on examination in gro age of assessment	e candidate each (ap oups (groups of 2, 15 : German or English	utes, usually chosen) or oprox. 20 minutes) or minutes per candidate) the course is offered and	l in the subsequent se	emester		
10-M=V-	Geome	trical M	lechanics								
GEM-161-m01	ECTS	10	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			V (4) + Modul	Ü (2) e taught in: Germa	n and/or English					
	Method	d of ass	essment	b) oral c) oral Langua Assess	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) c. anguage of assessment: German or English cassessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus						

10-M=VIST-161-	Industrial Statistics 2									
mo1	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses			V (4) + Modul	Ü (2) e taught in: Germa	ın and/or English				
	Method of assessment			b) oral c) oral Langua Assess) 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=V-	Field Ari	thmeti	cs							
KAR-161-m01	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses			V (4) + Modul	Ü (2) e taught in: Germa	ın and/or English				
				b) oral c) oral Langua Assess credita	written examination (approx. 90 to 120 minutes, usually chosen) or or one candidate each (approx. 20 minutes) or 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=VN-	Numeric of Partial Differential Equations [CTC 10 Direction Direction									
PE-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			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=VOP-	Selected	d Topic	s in Optin	nizatio	n					
T-161-m01	ECTS	10	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses			V (4) + Modul	Ü (2) e taught in: Germa	ın and/or English				
	Method	of asse	essment	b) oral c) oral Langua Assess	examination of or examination in gro age of assessment	ne candidate each (ap oups (groups of 2, 15 :: German or English	utes, usually chosen) o oprox. 20 minutes) or minutes per candidate) the course is offered ar		emester	

10-M=V-	Statistical Analysis										
STA-161-m01	ECTS	10	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	<u>!</u> S			/ (4) + Ü (2) Module taught in: German and/or English						
	Method	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=VVS-		nce Mat	hematics	2							
M-161-m01	ECTS	10	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	es			+ Ü (2) le taught in: Germa	an and/or English					
	Metho	d 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) c. 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=VZ-	Time S	eries A	nalysis 2								
RA-161-m01	ECTS	10	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	es.			V (4) + Ü (2) Module taught in: German and/or English						
	Method of assessment			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=V-		te Math	ematics								
DIM-161-m01	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	! S		V (3) ·	+ Ü (1) le taught in: Germa	an and/or English					
	Metho	d of ass	essment	b) ora c) ora Langu Asses	ll examination of or l examination in gr uage of assessmen	amination (approx. 60 to 90 minutes, usually chosen) or ination of one candidate each (approx. 15 minutes) or nation in groups (groups of 2, approx. 10 minutes per candidate) assessment: German or English offered: In the semester in which the course is offered and in the subsequent semester r bonus					

10-M=VD-	Dynamical Systems										
SY-161-mo1	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	,		V (3) + Ü (1) Module taught in: German and/or English							
	Method of as		b) ora c) ora Langu Asses) written examination (approx. 60 to 90 minutes, usually chosen) or) oral examination of one candidate each (approx. 15 minutes) or) 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 reditable for bonus							
10-M=V-	Aspects of G	eometry									
GEO-161-m01	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (3) + Modu	- Ü (1) le taught in: Germar	n and/or English						
	Method of as	sessment	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) canguage 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-	Mathematica	ıl Continuu	m Mec	hanics							
KOM-161-mo1	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (3) + Ü (1) Module taught in: German and/or English								
	Method of as	sessment	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=VMB-	Mathematica	l Imaging									
V-161-m01	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			V (3) + Ü (1) Module taught in: German and/or English							
	Method of as	sessment	b) ora c) ora Langu Asses	l examination of one l examination in gro age of assessment:	e candidate each (ap ups (groups of 2, app German or English	tes, usually chosen) or prox. 15 minutes) or		emester			

10-M=VMPH-161-	Selected Topics in Mathematical Physics										
mo1	ECTS	10	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses				V (4) + Ü (2) Module taught in: German and/or English						
	Method of assessment			b) ora c) ora Langu Asses credit) 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=V-	Selected	d Topic	s in Conti	ol The	ory						
TRT-161-m01	ECTS	10	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses			V (4) - Modu	- Ü (2) le taught in: Germa	nn and/or English					
	Method			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	Probler	ms								
PR-161-m01	ECTS	5	Duration	1	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	l examination of or l examination in gro age of assessment	approx. 60 to 90 minutes, usually chosen) or ne candidate each (approx. 15 minutes) or oups (groups of 2, approx. 10 minutes per cand :: German or English he semester in which the course is offered and		emester			
10-M=VMT-	Module	Theory									
H-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 asse	essment	b) ora c) ora Langu Asses	ritten examination (approx. 60 to 90 minutes, usually chosen) or ral examination of one candidate each (approx. 15 minutes) or ral examination in groups (groups of 2, approx. 10 minutes per candidate) guage of assessment: German or English essment offered: In the semester in which the course is offered and in the subsequent semester itable for bonus						

10-M=V-	Non-linear Analysis									
NAN-161-mo1	ECTS 5	Duratio	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (3) + Ü (1) Module taught in: Geri	V (3) + Ü (1) Module taught in: German and/or English						
	Method of	assessment	b) oral examination of c) oral examination in Language of assessme) written examination (approx. 60 to 90 minutes, usually chosen) or) oral examination of one candidate each (approx. 15 minutes) or) 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 reditable for bonus						
10-M=VOST-161-	Optimal C	ontrol								
mo1	ECTS 5	Duratio	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (3) + Ü (1) Module taught in: Geri	nan and/or English		,				
	Method of	assessment	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=VV-	Networked	d Systems	'			'				
SY-161-m01	ECTS 5	Duratio	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) oral examination of c) oral examination in Language of assessme	one candidate each (ap groups (groups of 2, ap ent: German or English	utes, usually chosen) or oprox. 15 minutes) or prox. 10 minutes per car the course is offered an	·	emester			
10-M=VK-	Complex C	Geometry								
GE-161-mo1	ECTS 10	Duration		Method of grading	numerical grade	Modul level	graduate			
	Courses		V (4) + Ü (2) Module taught in: Geri	nan and/or English						
	Method of assessment a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus					emester				

10-M=VPD-	Partial Differential Equations of Mathematical Physics										
P-161-m01	ECTS 10	Duratio	1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses		V (4) + Ü (2) Module taught in: Ge	/ (4) + Ü (2) Module taught in: German and/or English							
	Method of	assessment	b) oral examination o c) oral examination in Language of assessm	o written examination (approx. 90 to 120 minutes, usually chosen) or							
10-M=V-	Pseudo Ric	emannian and	l Riemannian Geometr	у							
PRG-161-m01	ECTS 10	Duration	1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses		V (4) + Ü (2) Module taught in: Ge	rman and/or English							
	Method of	assessment	b) oral examination o c) oral examination in Language of assessm	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=AF-	Functional	Analysis	,								
AN-161-m01	ECTS 10	Duratio	1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses		V (4) + Ü (2) Module taught in: German and/or English								
	Method of	assessment	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German 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 Di	fferential Geo	metry								
G-161-m01	ECTS 10	Duration		Method of grading numerical grade	Modul level	graduate					
	Courses		V (4) + Ü (2) Module taught in: Ge	rman and/or English							
	Method of	assessment	b) oral examination o c) oral examination in Language of assessm	ten examination (approx. 90 to 120 minutes, usually chosen) or examination of one candidate each (approx. 20 minutes) or examination in groups (groups of 2, 15 minutes per candidate) age of assessment: German or English sment offered: In the semester in which the course is offered and in the subsequent semester able for bonus							

10-M=VG-	Giovanni Prodi Lecture Selected Topics (Master)										
PS-161-mo1	ECTS 10	Duratio	n 1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses		V (4) + Ü (2) Module taught in: Germa	an and/or English							
	Method of ass	sessment	b) oral examination of o c) oral examination in gr Language of assessmen	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- PA-161-m01	Giovanni Prod	li Lecture A	Advanced Topics (Master								
	ECTS 10	Duratio		Method of grading numerical grade	Modul level	graduate					
	Courses		V (4) + Ü (2) Module taught in: Germa								
	Method of ass		b) oral examination of o c) oral examination in gr Language of assessmen Assessment offered: In t creditable for bonus								
10-M=VGPM-161-	Giovanni Prod	li Lecture l	Modern Topics (Master)								
mo1	ECTS 10	Duratio		Method of grading numerical grade	Modul level	graduate					
	Courses		V (4) + Ü (2) Module taught in: German and/or English								
	Method of ass	sessment	b) oral examination of o c) oral examination in gr Language of assessmen	approx. 90 to 120 minutes, usually chosne candidate each (approx. 20 minutes) roups (groups of 2, 15 minutes per cand t: German or English the semester in which the course is offe) or idate)	emester					
10-M=MP1-161-	Analysis and	Geometry	of Classical Systems		'						
mo1	ECTS 10	Duratio	n 1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses		V (4) + Ü (2) Module taught in: German and/or English								
	Method of ass	sessment	b) oral examination of o	approx. 90 to 120 minutes, usually chos ne candidate each (approx. 20 minutes) roups (groups of 2, 15 minutes per cand t: German or English) or						

10-M=MP2-161-	Algebra and Dynamics of Quantum Systems											
mo1	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	S			V (4) + Ü (2) Module taught in: German and/or English							
	Method	l of ass	essment	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English creditable for bonus								
10-M=GAL-	Research in Groups - Algebra											
G-161-m01	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	S			+ S (2) le taught in: Germ	nan and/or English						
	Method	l of ass	essment	Langi	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=G-	Research in Groups - Discrete Mathematics											
DIM-161-m01	ECTS 10 Duratio			1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses				+ S (2) le taught in: Germ	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								
10-M=GD-	Researc	Research in Groups - Dynamical Systems and Control Theory										
SC-161-m01	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	S			+ S (2) le taught in: Germ	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								
10-M=G-	Researc	ch in Gr	oups - Co	mplex	Analysis							
COA-161-m01	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	S		V (2) + S (2) Module taught in: German and/or English								
	Method	l of ass	essment	t 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=GGM-	Resear	ch in G	roups - Ge	ometi	y and Topology	,						
T-161-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			+ S (2) ıle taught in: Germa	n and/or English		·				
	Method	of ass	essment		talk (60 to 120 minutes)							
					Language of assessment: German or English							
10-M=GM-	Posonr	ch in C	roups M	Assessment offered: In the semester in which the course is offered and in the subsequent semester athematics in Context								
CX-161-mo1		10	Duratio		1 semester	Method of grading	numorical grado	Modul level	graduate			
	Course		Duratio			Method of grading	numerical grade	Modul level	graduate			
	Course	3			V (2) + S (2) Module taught in: German and/or English							
	Method	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-	Resear	ch in G	roups - M		atics in the Sciences		the course is offered.	and in the subsequent se				
SC-161-m01	ECTS 10 Duratio				1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses				+ S (2) ıle taught in: Germa	n and/or English						
	Method	d of ass	essment	Lang	60 to 120 minutes) uage of assessment ssment offered: In th		the course is offered	and in the subsequent se	emester			
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			
	Courses			V (2) + 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=GN-	Resear	ch in G	roups - Nu	ımeric	al Mathematics and	Applied Analysis		'				
MA-161-m01	ECTS	10	Duratio									
	Course	S			V (2) + S (2) Module taught in: German 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								

10-M=GROC-161-	Resear	rch in Gr	oups - Ro	botics	, Optimization and (Control Theory						
mo1	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	25			V (2) + S (2)							
					Module taught in: German and/or English							
	Metho	Method of assessment			talk (60 to 120 minutes)							
				Asses	Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester							
10-M=GT-	Resear	rch in Gr	oups - Ti		ne Series Analysis							
SA-161-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	25	-1	` '	+ S (2) lle taught in: Germar	n and/or English						
	Method of assessment			Langu	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=G-	Resear	rch in Gr	oups - St	atistic	istics							
STA-161-m01	ECTS	ECTS 10 Duratio			1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses				+ S (2) lle taught in: Germar	n and/or English						
	Method of assessment			Langi	60 to 120 minutes) lage of assessment: ssment offered: In th		the course is offered and in th	ie subsequent so	emester			
10-M=GNTH-161-	Research in Groups - Number Theory											
mo1	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	Courses			V (2) + S (2) Module taught in: German and/or English							
	Method 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								
10-M=GC-	Resear	rch in Gr	oups - Co	ntrol T	heory of Quantum N	Mechanical Systems						
QS-161-mo1	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			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-	Res	earch in (Froups - Di	fferent	ial Geometry	'		-				
GE-161-m01	ECT:	5 10	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Cou	rses			+ S (2) le taught in: Germar	n and/or English						
	Met	hod of as	sessment		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							
				Langi Asses								
10-M=GDF-	Res	earch in (Groups - De	forma	ormation Quantization							
Q-161-m01	ECT:	S 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Cou	rses			+ S (2) le taught in: Germar	n and/or English		^				
	Method of assessment			Langu	alk (60 to 120 minutes) anguage of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester							
10-M=GN-	Res	earch in (Groups - No	n-line	-linear Analysis							
LA-161-m01	ECTS 10 Duratio			1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses				V (2) + S (2) Module taught in: German and/or English							
	Met	hod of as	sessment	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=GO-	Research in Groups - Operator Algebras											
PA-161-m01	ECT:	5 10	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Cou	rses		V (2) + S (2) Module taught in: German and/or English								
	Met	hod of as	sessment	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-	Sem	inar in A	pplied Diffe	erentia	l Geometry			,				
G-161-m01	ECT:	S 5	Duratio	<u>1</u>	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Cou	rses		S (2) Modu	S (2) Module taught in: German 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								

10-M=SAL-	Semina	ar in Alg	gebra			,						
G-161-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (2) Modu	le taught in: Germa	n and/or English						
	Methoc	d of ass	essment	talk (60 to 120 minutes)								
				Language of assessment: German or English								
10-M=SD-	Somina	r in Dv	namical S		Assessment offered: In the semester in which the course is offered and in the subsequent semester retems and Control							
SC-161-m01		5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course		Duratio	S (2)	1 Semester	Method of grading	numencal grade	Modulilevel	graduate			
	Course.	3			le taught in: Germa	n and/or English						
	Method of assessment			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=S-	Semina	ar in Co	mplex An	alysis								
COA-161-m01	ECTS 5 Duratio			n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			S (2) Modu	Module taught in: German and/or English							
	Method of assessment			Langi	lage of assessment:		the course is offered a	nd in the subsequent se	emester			
10-M=S-	Seminar in Financial and Insurance Mathematics											
FIM-161-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			S (2) Module taught in: German and/or English								
	Method	d of ass	essment	talk (60 to 120 minutes) 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-	Semina	ar in Ge	ometry ar	id Top	ology			'				
GTO-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=SGP-	Giovan	ni Prod	i Seminaı	(Mast	er)			,				
C-161-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (2) Modu	6 (2) Module taught in: German and/or English							
	Method	d of ass	essment	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=SID-	Interdisciplinary Seminar											
C-161-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (2) Modu	ıle taught in: Gern	nan and/or English						
	Method	d of ass	essment	Langi	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=SM-	Semina	r Math	ematics i	n the S	ciences			·				
SC-161-m01	ECTS 5 Duratio			n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	Courses			ıle taught in: Gern	nan and/or English						
	Method	d of ass	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=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	Courses			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-	Semina	r in Op	timizatio	n				'				
T-161-mo1	ECTS				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 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								

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) Modu	le taught in: Germ	an and/or English		•				
	Method	d of ass	essment	Langu	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	ar in No	n-linear A	nalysis	5			'				
LA-161-m01	ECTS	5	Duratio	1	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								
Focus Subject Com	puter Ph	ysics (60 ECTS c	redits)								
11-L-M3-152-m01	Modern Physics 3 (Nuclear, Particle and Astrophysics)											
	ECTS 6 Duratio			1	2 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		V (3) - Modu	+ Ü (1) le taught in: Ü: Ge	rman or English						
	Method	d of ass	essment	written examination (approx. 90 to 120 minutes) Language of assessment: German and/or English								
	Referre	d to in I	LPO I	§ 77 I	Nr. 1 b)							
11-L-GKP-152-m01	Genera	l Conce	pts of Ph	ysics								
	ECTS	6	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses Method of assessment			V (2) + Ü (1) + S (2) Module taught in: Ü: German or English								
				a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) Language of assessment: German and/or English								
				§ 77 I	Nr. 1 b)							

11-L-T1-161-m01	Theore	tical Ph	ysics 1 for	r Pre Service Teachers									
	ECTS	7	Duration	1 semester	Method of grading numerical grade	Modul level	undergraduate						
	Course	S		V (4) + Ü (2) Module taught in: Ü: Go	erman or English								
	Method	l of ass		written examination (approx. 120 minutes) Language of assessment: German and/or English									
	other p	rerequi		Admission prerequisite to assessment: completion of exercises (approx. 13 exercise sheets per semester). Students who successfully completed approx. 50% of exercises will qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the semester.									
	Additio	nal Info		Registration: If a student registers for the exercises or the seminar and obtains the qualification for admission to assessment, this will be considered a declaration of will to seek admission to assessment pursuant to Section 20 Subsection 3 Sentence 4 ASPO (general academic and examination regulations). If the module coordinators subsequently find that the student has obtained the qualification for admission to assessment, they will put the student's registration for assessment into effect. Only those students that meet the respective prerequisites can successfully register for an assessment. Students who did not register for an assessment or whose registration for an assessment was not put into effect will not be admitted to the respective assessment. If a student takes an assessment to which he/she has not been admitted, the grade achieved in this assessment will not be considered.									
11-L-T2-161-m01	Theoretical Physics 2 for Pre Service Teachers - Exercises												
	ECTS 7 Duration			1 semester	Method of grading numerical grade	Modul level	undergraduate						
	Courses			V (4) + Ü (2) Module taught in: Ü: German or English									
	Method of assessment			oral examination of one candidate each (approx. 30 minutes) Assessment will have reference to the contents of modules 11-L-T1 and 11-L-T2. Language of assessment: German and/or English									
	other prerequisites			Admission prerequisite to assessment: completion of exercises (approx. 13 exercise sheets per semester). Students who successfully completed approx. 50% of exercises will qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the semester.									
	Additio	nal Info		this will be considered ASPO (general academ tained the qualification those students that me ster for an assessment	nt registers for the exercises or the seminar and ob- a declaration of will to seek admission to assess ic and examination regulations). If the module con- n for admission to assessment, they will put the state eet the respective prerequisites can successfully re- or whose registration for an assessment was not put takes an assessment to which he/she has not be	ment pursuant to Se ordinators subseque cudent's registration egister for an assess put into effect will n	ection 20 Subsection 3 Sentence 4 ently find that the student has ob- for assessment into effect. Only sment. Students who did not regi- ot be admitted to the respective						

11-AKM-161-mo1	Cosmology											
	ECTS 6	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses	·	V (3) ·			`						
				Module taught in: German or English								
	Method o	f 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) pro	d) project report (approx. 8 to 10 pages) or								
			e) pre	sentation/talk (ap	prox. 30 minutes).							
					was chosen as method of assessment, this may be tion of one candidate each or an oral examination							
					students about this by four weeks prior to the original							
			Langu	uage of assessmen	t: German and/or English							
				ssment offered: In t	he semester in which the course is offered and in	the subsequent se	emester					
11-APL-161-m01		gy Astrophysi		ì	1	1						
	ECTS 6	Duratio	,	1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses		V (3) -	+ R (1) lle taught in: Germa	an or English							
	Method o	f 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-ASM-161-m01	Methods	of Observation	nal Ast	ronomy								
	ECTS 6	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses		V (3) ·	+ R (1)								
				lle taught in: Germa								
	Method o	t assessment			approx. 90 to 120 minutes) or ne candidate each (approx. 30 minutes) or							
					oups (groups of 2, approx. 30 minutes) of	ate) or						
			d) pro	ject report (approx	k. 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.									
			Langu	Language of assessment: German and/or English								
			Asses	ssment offered: In t	the semester in which the course is offered and in	the subsequent se	emester					

11-ASP-161-m01	Introduction to Space Physics											
	ECTS 6	Duration	n	1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses		V (3) +			•						
				le taught in: Germa			-					
	Method of	fassessment		a) written examination (approx. 90 to 120 minutes) or								
				o) 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) pro	d) project report (approx. 8 to 10 pages) or								
			e) pre	sentation/talk (app	prox. 30 minutes).							
					was chosen as method of assessment, this may be ion of one candidate each or an oral examination in							
					students about this by four weeks prior to the origin							
			Langu	age of assessment	t: German and/or English							
					he semester in which the course is offered and in the	ie subsequent se	emester					
11-ATTP-161-m01				Elementary Partic								
	ECTS 6	Duration		1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses			V (3) + R (1) Module taught in: German or English								
	Method of	f 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-BMT-161-m01		al Measureme	nt Tecl	nnology in Medica	l Science							
	ECTS 6	Duration		1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses		V (3) +									
			Module taught in: German or English									
	Method of	assessment	a) writ	ten examination (a	approx. 90 to 120 minutes) or ne candidate each (approx. 30 minutes) or							
			c) oral	l examination of of examination in gr	oups (groups of 2, approx. 30 minutes) of	e) or						
			d) pro	ject report (approx	. 8 to 10 pages) or	o, c.						
				e) presentation/talk (approx. 30 minutes)								
					was chosen as method of assessment, this may be							
			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									
			Asses	sment offered: In t	he semester in which the course is offered and in th	ie subsequent se	emester					

11-BSM-161-mo1	Models Bey	ond the Sta	ndard	Model of Elementa	ry Particle Physics	,					
	ECTS 6	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses			+ R (1)		,					
				Module taught in: German or English							
	Method of a	assessment	a) wri	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) pro	d) project report (approx. 8 to 10 pages) or							
			e) pre	esentation/talk (ap	prox. 30 minutes).	the changed and acc	saccment may instead take the				
					was chosen as method of assessment, this may tion of one candidate each or an oral examinatio						
			the le	ecturer must inform	students about this by four weeks prior to the o						
					nt: German and/or English	• .1 1					
DCV	Images and	Ciamal Dua aa			the semester in which the course is offered and i	in the subsequent se	emester				
11-BSV-161-m01	ECTS 6	Signal Proce Duration			Mothod of avadina humavical avada	Modulloval	are due to				
		Duratio		1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses			V (2) + Ü (2) Module taught in: German or English							
	Method of a	assessment	a) wri	a) written examination (approx. 90 to 120 minutes) or							
			b) ora	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) pro	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.								
			Langu	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-mo1				in One Dimension	.						
	ECTS 6	Duratio	,	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses		V (3) + R (1) Module taught in: German or English								
	Method of a	assessment			(approx. 90 to 120 minutes) or						
					ne candidate each (approx. 30 minutes) or	• • • •					
					roups (groups of 2, approx. 30 minutes per candi	idate) 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							
		1		•							

11-CMS-161-mo1	Comput	ational	l Material:	s Scie	nce (DFT)			,				
	ECTS	8	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	;			+ R (2)							
	NA (1 1				ıle taught in: Germa							
	Method	or asso				approx. 90 to 120 mir ne candidate each (a)	oprox. 30 minutes) or					
				c) ora	al examination in gr	oups (groups of 2, ap	prox. 30 minutes per candida	te) 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 examinat	ion of one candidate	each or an oral examination in	n groups. If the m	ethod of assessment is changed,			
					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-CRP-161-m01	Renorma	alizatio			ritical Phenomena							
	ECTS	6	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	;			(3) + R (1)							
	NA (1 1			Module taught in: German or English a) written examination (approx. 90 to 120 minutes) or								
	Method	or asso	essment	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	n of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, lecturer must inform students about this by four weeks prior to the original examination date at the latest.							
								nal 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-CSAM-161-mo1	Advance	ed Topi	ics in Astr	ophys	sics							
	ECTS	6	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses				+ R (1)							
	Method	of asso				approx. 90 to 120 mir						
							oprox. 30 minutes) or prox. 30 minutes per candida	te) 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)								
					coccment may instead take the							
				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.								
	- 41			Language of assessment: German and/or English Approval from examination committee required.								
	other pr	erequi	sites	Appro	ovat from examinati	on committee require	eu. 					

11-CSFM-161-m01	Advanced Topics in Solid State Physics											
	ECTS	6	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses	S		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 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 w	ritten examination v	was chosen as method of assessment, this ma	ay be changed and ass	sessment may instead take the				
						ion of one candidate each or an oral examinati students about this by four weeks prior to the						
						: German and/or English	oligillat examination (uate at the tatest.				
	other p					on committee required.						
11-EFQ-161-m01	L		Fraction		ntisation							
	ECTS	6	Duration		1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses	S			V (3) + R (1) Module taught in: German or English							
	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 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-EXE5-161-m01	Current	Topics	in Experi	menta	l Physics							
	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses			` ,	+ R (2)							
	Method	l of ass	essment	a) wr	tten examination (a	pprox. 90 to 120 minutes) or						
						ne candidate each (approx. 30 minutes) or	didate) or					
				c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or								
				e) presentation/talk (approx. 30 minutes)								
				If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.								
				Language of assessment: German and/or English								
	other p	rerequi	sites	Appro	oval from examination	on committee required.						

11-EXE6-161-mo1	Current Top	ics in Experi	menta	l Physics		,					
	ECTS 6	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses	•	V (3)	+ R (1)	•	•					
	Method of a	ssessment	a) wr	itten examination (a	approx. 90 to 120 minutes) or						
			b) ora	al examination of or	ne candidate each (approx. 30 minutes) or						
			c) ora	al examination in gro	oups (groups of 2, approx. 30 minutes per candidat	e) or					
			a) pro	d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes)							
					was chosen as method of assessment, this may be	changed and as	sessment may instead take the				
			form	of an oral examinati	ion of one candidate each or an oral examination in	groups. If the m	ethod of assessment is changed,				
			the le	ecturer must inform	students about this by four weeks prior to the origin	nal examination	date at the latest.				
					: German and/or English						
	other prerequisites										
11-EXE7-161-mo1	Current Top			ıl Physics							
	ECTS 7	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses			+ R (1)							
	Method of a	ssessment	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 w	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 prerec	nnicitos	Approval from examination committee required.								
11-EXE8-161-mo1	other prerequisites										
11-LXLO-101-IIIO1	ECTS 8	Duration		1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses	Duration		+ R (2)	Method of grading numerical grade	Modul level	graduate				
		ccoccmont			approx. 90 to 120 minutes) or						
	Method of a	356551116111			ne candidate each (approx. 30 minutes) or						
					oups (groups of 2, approx. 30 minutes per candidat	e) or					
			d) pro	oject 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.								
					: German and/or English	iai chaiiiiiatioii	auto at the latest.				
	other prerec	quisites			on committee required.						
	, , , , , , , , , , , , , , , , , , , ,		<u> </u>	-	·						

11-EXE6A-161-m01												
	ECTS	6	Duration)	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses	;		V (3)	+ R (1)							
	Method	of asse	essment	a) wri	tten examination (a	pprox. 90 to 120 minutes) or						
						e candidate each (approx. 30 minutes) or	`					
				c) ora	il examination in gro	oups (groups of 2, approx. 30 minutes per candidat	e) or					
				e) pro	d) project report (approx. 8 to 10 pages) or epipersentation/talk (approx. 30 minutes)							
	If a written examination was chosen as method of assessment, this may be changed and assessment may i											
					form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed,							
				the le	cturer must inform s	students about this by four weeks prior to the origin	nal examination	date at the latest.				
	.1					: German and/or English	1					
EVD ()	other pr				oval from examination	on committee required.						
11-EXP6-161-m01			in Physic		1							
		6	Duration		1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses				V (3) + R (1)							
	Method	of asse	essment	a) wri	tten examination (a	pprox. 90 to 120 minutes) or						
				c) ora	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) pro	d) project report (approx. 8 to 10 pages) or							
				e) pre	esentation/talk (app	rox. 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	erequis	sites	Approval from examination committee required.								
11-EXP6A-161-m01												
		6	Duration		1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses				+ R (1)							
	Method	of asse				pprox. 90 to 120 minutes) or						
						e candidate each (approx. 30 minutes) or oups (groups of 2, approx. 30 minutes per candidat	a) ar					
					oject report (approx.		e) oi					
					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 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								
	other pr	ereguie		Approval from examination committee required.								
	outer bi	crequis	Jiles	Appro		on committee required.						

11-EXT5-161-m01	Current Topi	cs of Theor	etical	Physics							
	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses	,	V (2)	+ R (2)	·	•					
	Method of as	ssessment	a) wr	itten examination (a	pprox. 90 to 120 minutes) or						
					e candidate each (approx. 30 minutes) or						
					oups (groups of 2, approx. 30 minutes per candidat	e) or					
				d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes)							
		e) presentation/talk (approx. 30 minutes) If a written examination was chosen as method of assessment, this may be changed and assessment may instead to									
			form	of an oral examinati	on of one candidate each or an oral examination in	groups. If the m	ethod of assessment is changed,				
					students about this by four weeks prior to the origin	nal examination	date at the latest.				
					: German and/or English						
	other prereq				on committee required.						
11-EXT6-161-mo1	Current Topi										
	ECTS 6	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses			+ R (1)							
	Method of as	ssessment	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 prereq	uisites	Approval from examination committee required.								
11-EXT7-161-m01	Current Topics of Theoretical Physics										
	ECTS 7	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses			+ R (1)							
	Method of as	ssessment			pprox. 90 to 120 minutes) or						
					e candidate each (approx. 30 minutes) or oups (groups of 2, approx. 30 minutes per candidat	a) ar					
						e) 01					
				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 the lecturer must inform students about this by four weeks prior to the original examination date at the latest.										
						nai examination	date at the latest.				
	other prereq	uicites	Language of assessment: German and/or English Approval from examination committee required.								
	Tottlet bieled	4131103	Lyphi	- CAUTHOUT CAUTHITALI	on committee required.						

11-EXT8-161-mo1	Current Topics of Theoretical Physics											
	ECTS	8	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (4) +	- R (2)	·	•					
	Method	of ass	essment			pprox. 90 to 120 minutes) or						
						e candidate each (approx. 30 minutes) or						
						oups (groups of 2, approx. 30 minutes per candi	date) or					
) project report (approx. 8 to 10 pages) or) presentation/talk (approx. 30 minutes)							
		le) 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 o	of an oral examinati	on of one candidate each or an oral examinatio	n in groups. If the m	ethod of assessment is changed,				
						students about this by four weeks prior to the or	riginal examination	date at the latest.				
			•-			: German and/or English						
EVE (A.	other p					on committee required.						
11-EXT6A-161-m01			of Theore									
		6	Duration		1 semester	Method of grading numerical grade	Modul level	graduate				
	Course			V (3) +								
	Methoc	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								
	other prerequisites			Approval from examination committee required.								
11-FK2-161-m01	Solid S				approvat from examination committee required.							
		8	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course		2 4. 4	V (4) +		method of grading mamorious grade	, model to to	Sidden				
	Course	3			le taught in: Germa	n or English						
	Method	of ass	essment	a) writ	ten examination (a	pprox. 90 to 120 minutes) or						
				b) ora	l examination of on	e candidate each (approx. 30 minutes) or						
						oups (groups of 2, approx. 30 minutes per candi	date) or					
					ject report (approx.							
				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								
				ASSES	Sment onerea: Ill th	ie semester in winch the course is offered alla f	ii tile subsequellt St	בוווכאנפו				

11-FKS-161-m01	Solid S	tate Sp	ectroscop	у								
	ECTS	6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (3) -								
				Modu	le taught in: Germa	n or English						
	Method	d of ass	essment	b) ora c) ora d) pro e) pre If a wi form of 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-FPA-161-m01		g Resea										
	ECTS 10 Duration				Method of grading	numerical grade	Modul level	graduate				
	Course	S		R (o)								
	Method of assessment			project report (10 to 20 pages) Language of assessment: German and/or English								
	other p	rerequi	sites	Approval from examination committee required.								
11-FTAS-161-mo1	Field TI	heoretic	cal Aspect	ts of Solid State Physics								
	ECTS	6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (3) - Modu	+ R (1) le taught in: Germa	ın or English						
	Method of assessment			b) ora c) ora d) pro e) pre If a wi form of the le Langu	l examination of on l examination in gro ject report (approx, sentation/talk (app ritten examination v of an oral examinati cturer must inform a lage of assessment	. 8 to 10 pages) or prox. 30 minutes). was chosen as metho ion of one candidate of students about this be: German and/or Engl	prox. 30 minutes) or prox. 30 minutes per candidate of assessment, this may be ceach or an oral examination in gray four weeks prior to the original	hanged and ass groups. If the m al examination				

11-FTFK-161-m01	Field Theory in Solid State Physics											
	ECTS	8	Duration)	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses	S			+ R (2)	·	•					
					ıle taught in: Germa							
	Method	l of asso			a) written examination (approx. 90 to 120 minutes) or							
					o) 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) pre	esentation/talk (app	prox. 30 minutes).						
						was chosen as method of assessment, this may be ion of one candidate each or an oral examination ir						
						students about this by four weeks prior to the origin						
				Langi	uage of assessment	t: German and/or English						
						he semester in which the course is offered and in th	ne subsequent se	emester				
11-GGD-161-m01			Gauge/G		· · · · · · · · · · · · · · · · · · ·							
	ECTS 8 Durati				1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses	S			(4) + R (2) odule taught in: German or English							
	Method	l of asso		a) written examination (approx. 90 to 120 minutes) or								
					o) oral examination of one candidate each (approx. 30 minutes) or) 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							
					orm of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, he lecturer must inform students about this by four weeks prior to the original examination date at the latest.							
					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	Semiconductor Physics											
	ECTS	6	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses	S			+ R (1)							
				Module taught in: German or English								
	Method	l of asso	essment	a) wri	tten examination (a	approx. 90 to 120 minutes) or ne candidate each (approx. 30 minutes) or						
				c) ora	al examination of of	oups (groups of 2, approx. 30 minutes) or	e) or					
				d) pro	oject 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								
				Asses	ssment offered: In t	he semester in which the course is offered and in th	ne subsequent se	emester				

11-HNS-161-m01	Optical Properties of Semiconductor Nanostructures											
	ECTS	6	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S			+ R (1)							
		1		Modu	Module taught in: German or English							
	Method	d of ass	sessment	a) wri) written examination (approx. 90 to 120 minutes) or							
					oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or							
					d) project report (approx. 8 to 10 pages) or							
				e) pre	sentation/talk (ap	prox. 30 minutes).						
						was chosen as method of assessment, this may b						
						tion of one candidate each or an oral examination students about this by four weeks prior to the ori						
						t: German and/or English	Smar examination	date at the latest.				
				Asses	ssment offered: In t	the semester in which the course is offered and in	the subsequent se	emester				
11-KFT-161-m01			ld Theory									
	ECTS	6	Duration		1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S			(3) + R (1) lodule taught in: German or English							
	Method	d of ass	sessment	a) written examination (approx. 90 to 120 minutes) or								
				b) ora	o) 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) nr	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	Confor	mal Fie	ld Theory :	2								
	ECTS	6	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (3)	+ R (1)							
				Module taught in: German or English								
	Method	d of ass	sessment			approx. 90 to 120 minutes) or ne candidate each (approx. 30 minutes) or						
						ne candidate each (approx. 30 minutes) of roups (groups of 2, approx. 30 minutes per candid	ate) or					
				d) pro	ject report (approx	k. 8 to 10 pages) or	a.c., c.					
						prox. 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.								
				Langi	Language of assessment: German and/or English							
				Asses	sment offered: In t	the semester in which the course is offered and in	the subsequent se	emester				

11-MAG-161-mo1	Magnetism											
	ECTS	6	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses	S			(3) + R(1)							
					le taught in: Germa	_						
	Method	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) pre	sentation/talk (app	prox. 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 original						
				Langu	age of assessment	t: German and/or English						
		emester										
11-MAS-161-m01			gth Astro	nomy								
	ECTS	6	Duration		1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses	S		V (3) - Modu	+ R (1) le taught in: Germa	an or English						
	Method	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							
11-MSF-161-m01	Magnet	tism an	ıd Spin Flu	ıids			,					
	ECTS	6	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses	S		V (3) -		•	*					
				Module taught in: German or English								
	Method	l of ass	essment	a) wri	tten examination (a	approx. 90 to 120 minutes) or						
				c) ora	l examination of of Lexamination in gr	ne candidate each (approx. 30 minutes) or oups (groups of 2, approx. 30 minutes per candida	te) or					
					ject report (approx		(10)					
					sentation/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								
						he semester in which the course is offered and in t	he subsequent se	emester				

11-NDS-161-mo1	Low Dimensional Structures										
	ECTS	6	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	5		V (3) +	- R (1)						
	Method	l of asse	essment	b) ora c) oral	l examination of on examination in gro	oups (groups of 2, ap	nutes) or oprox. 30 minutes) or oprox. 30 minutes per candidate	e) or			
				e) pres If a wr form o the led Langu	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	•			val from examination	on committee require	ed.				
11-NMA-161-m01			Astrophy			las de la contra	T	I			
		6	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			V (3) + Modu	- R (1) le taught in: Germa	n or English					
	Method of assessment			form of the lead Langu	sessment may instead take the ethod of assessment is changed, date at the latest. emester						
11-NOP-161-mo1	Nano-O		D			NA - 41 1 - 5 1:	Turning death and de	AA - ded laced	Lawadayata		
	ECTS 6 Duration 1 semester Method of grading numerical grade Modul level graduate Courses V (3) + R (1) Module taught in: German or English				graduate						
	Method	of asse									

11-OHL-161-m01	Organic Semiconductors										
	ECTS 6	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses		V (3)								
				Module taught in: German or English							
	Method of a	assessment			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) pro	d) project report (approx. 8 to 10 pages) or							
			e) pre	sentation/talk (ap	prox. 30 minutes) was chosen as method of assessment, this may b	a changed and acc	sassment may instead take the				
			form	of an oral examina	tion of one candidate each or an oral examination	in groups. If the m	nethod of assessment is changed,				
			the le	cturer must inform	students about this by four weeks prior to the orig						
					It: German and/or English the semester in which the course is offered and in	the subsequent so	master				
11-PKS-161-m01	Physics of	Complex Sys		Silient onereu: iii i	the semester in which the course is offered and in	the subsequent se	eniestei				
11-PKS-161-M01	ECTS 6	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses	Duratio		<u> </u>	Method of glading humerical glade	Modulitevel	graduate				
	Courses			V (2) + R (2) Module taught in: German or English							
	Method of a	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 w	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-PMM-161-m01	Physics of Advanced Materials										
	ECTS 6	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses		V (3)								
	10 11 1 6		Module taught in: German or English								
	Method of a	assessment	a) wri	tten examination (approx. 90 to 120 minutes) or ne candidate each (approx. 30 minutes) or						
			c) ora	l examination in g	roups (groups of 2, approx. 30 minutes) of	ate) or					
			d) pro	ject report (approx	x. 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								
			Asses	Silient offerea: In 1	the semester in which the course is offered and in	ine subsequent se	emester				

11-QFT2-161-m01	Quantum Field Theory II										
	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							
	Method	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-QIC-161-m01	Quantum Information and Quantum Computing										
	ECTS 6 Duratio			1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			V (3) + R (1) Module taught in: German or English							
		es succe		b) ora c) ora d) pro e) pre If a wr form o the le- Langu Asses	l examination of o l examination in g ject report (approx sentation/talk (ap itten examination of an oral examina cturer must inform age of assessmen	x. 8 to 10 pages) or prox. 30 minutes). was chosen as methotion of one candidate students about this but: German and/or Eng	prox. 30 minutes) or prox. 30 minutes per candidate of of assessment, this may be cleach or an oral examination in goy four weeks prior to the original	hanged and ass groups. If the m al examination	ethod of assessment is changed, date at the latest.		

11-QM2-161-m01	Quantum Mechanics II										
	ECTS 8	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Courses	·	V (4) +			,					
	11 1 5		_	Module taught in: German or English							
	Method of a	assessment	a) writi) written examination (approx. 90 to 120 minutes) or) oral examination of one candidate each (approx. 30 minutes) or) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or							
				d) project report (approx. 8 to 10 pages) or epsentation/talk (approx. 30 minutes).							
			e) pres	sentation/taik (a itten examinatioi	pprox. 30 minutes). n was chosen as method of assessment, this may	v he changed and ass	sessment may instead take the				
			form o	f an oral examina	ation of one candidate each or an oral examination	on in groups. If the m	ethod of assessment is changed,				
					m students about this by four weeks prior to the o	original examination	date at the latest.				
					nt: German and/or English the semester in which the course is offered and	in the subsequent se	emester				
11-QTH-161-m01	Quantum T	ransport	7133633	Sincine officied. In	The semester in which the course is offered und	The Subsequent se					
	ECTS 6	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses	, ,	V (3) +			•					
				Module taught in: German or English							
	Method of a	assessment	a) writt	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) proj	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.							
			the lec								
			Langua	Language of assessment: German and/or English							
11 OIII 1(1 mo1	Assessment offered: In the semester in which the course is offered and in the subsequent semester Quantum Information Technology										
11-QUI-161-m01	ECTS 6	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses	Duratio	V (3) +		Method of grading Indinental grade	Modulitevel	giaduate				
	Courses		Modul	e taught in: Gern	nan or English						
	Method of a	assessment			(approx. 90 to 120 minutes) or						
					one candidate each (approx. 30 minutes) or						
					groups (groups of 2, approx. 30 minutes per cand	didate) 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	Many Body Quantum Theory									
	ECTS 8	Duration	1 1	ı semester	Method of grading numerical grade	Modul level	graduate			
	Courses			(4) + R(2)						
				Module taught in: German or English						
	Method of	f assessment			approx. 90 to 120 minutes) or					
				oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or						
			d) proje	ect report (approx.	. 8 to 10 pages) or	.,				
			e) prese	entation/talk (app	prox. 30 minutes).					
					was chosen as method of assessment, this may be closed one candidate each or an oral examination in					
					students about this by four weeks prior to the origin					
			Langua	ge of assessment	: German and/or English					
					he semester in which the course is offered and in th	e subsequent se	emester			
11-RMFT-161-mo1				s in Field Theory						
	ECTS 8			ı semester	Method of grading numerical grade	Modul level	graduate			
	Courses			y) + R (2) dule taught in: German or English						
	Method o	f assessment		a) written examination (approx. 90 to 120 minutes) or						
				o) oral examination of one candidate each (approx. 30 minutes) or) 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.						
				ne tecturer 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-RQFT-161-m01	Relativistic Quantum Field Theory									
	ECTS 8	Duration		ı semester	Method of grading numerical grade	Modul level	graduate			
	Courses		V (4) + I							
			Module taught in: German or English							
	Method of	f assessment	a) writte	en examination (a	approx. 90 to 120 minutes) or ne candidate each (approx. 30 minutes) or					
			c) oral e	examination of on examination in gro	ouns (groups of 2, approx, 30 minutes) of	e) or				
			d) proje	c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or						
					prox. 30 minutes).					
					was chosen as method of assessment, this may be on of one candidate each or an oral examination in					
					students about this by four weeks prior to the origin					
					: German and/or English	iai examination	date at the latest.			
					he semester in which the course is offered and in th	e subsequent se	emester			

11-RTT-161-m01	Theory of Relativity										
	ECTS	6	Duration	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses	5			V (3) + R (1)						
					le taught in: Gern						
	Method	of ass	essment	a) wri	tten examination	(approx. 90 to 120 minutes) or one candidate each (approx. 30 minutes) or					
						groups (groups of 2, approx. 30 minutes) or	idate) or				
				d) pro	ject report (appro	ox. 8 to 10 pages) or					
				e) pre	esentation/talk (a	pprox. 30 minutes).					
						n was chosen as method of assessment, this may ation of one candidate each or an oral examinatio					
						n students about this by four weeks prior to the o					
				Langu	uage of assessme	nt: German and/or English					
				Asses	ssment offered: In	the semester in which the course is offered and i	n the subsequent se	emester			
11-SPI-161-m01	Spintro				1						
	ECTS	6	Duration		1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses				+ R (1) lle taught in: Gern	nan or English					
	Method of assessment			a) wri	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						
				Asses							
11-SUP-161-m01	Superco		ivity								
	ECTS	6	Duration	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses	5		V (3) + R (1)							
				Module taught in: German or English							
	Method	of ass	essment		a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or						
						idate) or					
				d) pro	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)						
						n was chosen as method of assessment, this may					
						ation of one candidate each or an oral examination students about this by four weeks prior to the o					
						nt: German and/or English	inginat examination	date at the latest.			
						the semester in which the course is offered and i	n the subsequent se	emester			

11-TDO-161-mo1	Thermodynamics and Economics										
	ECTS 6	Duration	1 semester	Method of grading (not) successfully completed	Modul level	graduate					
	Courses		V (3) + R (1)								
			Module taught in: Gerr								
	Method of	assessment	a) written examination	(approx. 90 to 120 minutes) or							
				o) 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 (appro	ox. 8 to 10 pages) or							
			e) presentation/talk (a	pprox. 30 minutes) n was chosen as method of assessment, this may be o	hanged and ac	sessment may instead take the					
				ation of one candidate each or an oral examination in							
			the lecturer must infor	m students about this by four weeks prior to the origin							
				ent: German and/or English	o subsoquent s	omostor					
11-TEF-161-m01	Assessment offered: In the semester in which the course is offered and in the subsequent semester Topological Effects in Electronic Systems										
11-161-101-11101	ECTS 6	Duration		Method of grading numerical grade	Modul level	graduate					
	Courses		V (3) + R (1)	Method of grading Indifferent grade	Modulitevel	graduate					
	Courses		Wodule taught in: German or English								
	Method of	assessment	a) written examination	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					
	Courses		V(4) + R(2)								
	Mathadaf		Module taught in: German or English a) written examination (approx. 90 to 120 minutes) or								
	Method of	assessment		(approx. 90 to 120 minutes) or one candidate each (approx. 30 minutes) or							
			c) oral examination in	groups (groups of 2, approx. 30 minutes per candidate	e) 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							
				ation of one candidate each or an oral examination in							
			the lecturer must infor	m students about this by four weeks prior to the origin							
				ent: German and/or English							
			Assessment offered: Ir	the semester in which the course is offered and in the	e subsequent s	einester					

11-TFK-161-m01	Theoretical Solid State Physics									
	ECTS 8	Duration	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses		V (4) + R (2)							
				Module taught in: German or English						
	Method of	fassessment		n (approx. 90 to 120 minutes) or						
				oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or						
			d) project report (app	rox. 8 to 10 pages) or						
			e) presentation/talk (
				on was chosen as method of assessment, this may nation of one candidate each or an oral examination						
				orm students about this by four weeks prior to the c						
				nent: German and/or English						
				In the semester in which the course is offered and	in the subsequent se	emester				
11-TFK2-161-m01		al Solid State								
	ECTS 8	Duration		Method of grading numerical grade	Modul level	graduate				
	Courses		V (4) + R (2) Module taught in: Ge	odule taught in: German or English						
	Method of	f 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.							
			anguage of assessment: German and/or English							
			Assessment offered: In the semester in which the course is offered and in the subsequent semester							
11-TFP-161-m01	Topology in Solid State Physics									
	ECTS 6	Duration	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses		V (3) + R (1)							
			Module taught in: German or English							
	Method of	assessment	a) written examination	n (approx. 90 to 120 minutes) or fone candidate each (approx. 30 minutes) or						
			c) oral examination in	n groups (groups of 2, approx, 30 minutes) of	didate) or					
			d) project report (app	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 (
				on was chosen as method of assessment, this may nation of one candidate each or an oral examination						
				orm students about this by four weeks prior to the c						
			Language of assessm	nent: German and/or English	_					
			Assessment offered:	In the semester in which the course is offered and	in the subsequent se	emester				

11-TOPO-161-mo1	Topological Order									
	ECTS 6	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses			/ (3) + R (1)						
				Module taught in: German or English						
	Method o	of assessment		written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or						
			d) pro							
			e) pre	sentation/talk (ap	prox. 30 minutes). was chosen as method of assessment, this may be	changed and ac	sossment may instead take the			
					tion of one candidate each or an oral examination in					
			the le	cturer must inform	students about this by four weeks prior to the origi					
					t: German and/or English the semester in which the course is offered and in tl	no subsoquent se	master			
11-TPE-161-m01	Evporime	ental Particle P		Silient offered; in t	the semester in which the course is offered and in the	ne subsequent se	eniestei			
11-165-101-11101	ECTS 6			1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses	Duratio	V (3) +		Method of grading Trumencat grade	Modulitevel	graduate			
	Courses			lodule taught in: German or English						
	Method o	of assessment		a) written examination (approx. 90 to 120 minutes) or						
				b) oral examination of one candidate each (approx. 30 minutes) or						
			c) ora	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 wr	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-TQP-161-m01	Topological Quantum Physics									
	ECTS 6	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses		V (3) +							
			Module taught in: German or English							
	Method	of assessment	a) writ	tten examination (a	approx. 90 to 120 minutes) or ne candidate each (approx. 30 minutes) or					
			c) ora	l examination in gr	roups (groups of 2, approx. 30 minutes) of	te) or				
			d) pro	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						
					tion of one candidate each or an oral examination in					
			the le	cturer must inform	students about this by four weeks prior to the origi					
					t: German and/or English	h a a.uh a a				
	,		Asses	Sment orrerea: In t	the semester in which the course is offered and in the	ne subsequent so	emester			

11-TSL-161-m01	Theory of Superconductivity									
	ECTS 6	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses			V (3) + R (1)						
				ule taught in: Germ			_			
	Method of a	issessment			(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) pro	oject report (appro	x. 8 to 10 pages) or					
					oprox. 30 minutes). was chosen as method of assessment, this n	nay he changed and as	sessment may instead take the			
			form	of an oral examina	tion of one candidate each or an oral examina	ation in groups. If the m	ethod of assessment is changed,			
					n students about this by four weeks prior to th	e original examination	date at the latest.			
					nt: German and/or English the semester in which the course is offered ar	nd in the subsequent s	emester			
11-SSC-172-m01	Surface Scio	ence	7.000	-	the semester in which the course is offered at	na m me sassequent s				
,	ECTS 6	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses			+ R (1)	•	·				
				odule taught in: English						
	Method of a	issessment		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) pro	oject report (appro	x. 8 to 10 pages) or	,				
				esentation/talk (ap	pprox. 30 minutes) was chosen as method of assessment, this n	nay ho changed and ac	sossment may instead take the			
					tion of one candidate each or an oral examina					
				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-EIT-161-m01	Assessment offered: In the semester in which the course is offered and in the subsequent semester Gauge Theories									
	ECTS 6	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses			+ R (1)			-			
				Module taught in: German or English						
	Method of a	issessment			(approx. 90 to 120 minutes) or					
					one candidate each (approx. 30 minutes) or roups (groups of 2, approx. 30 minutes per ca	andidate) or				
			d) pro	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						
					was chosen as method of assessment, this n tion of one candidate each or an oral examina					
					students about this by four weeks prior to th					
					nt: German and/or English	and the Albertanian and				
			Asse	ssment offered: In	the semester in which the course is offered ar	na in the subsequent so	emester			

11-AST-161-m01	Theoretical Astrophysics									
	ECTS 6	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses			V (2) + R (2)						
				Module taught in: German or English						
	Method of a	assessment			(approx. 90 to 120 minutes) or					
				oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or						
			d) pro	ject report (appro	x. 8 to 10 pages) or					
			e) pre	sentation/talk (ap	oprox. 30 minutes).					
					was chosen as method of assessment, this may b tion of one candidate each or an oral examination					
					n students about this by four weeks prior to the original to t					
					nt: German and/or English					
		. 51			the semester in which the course is offered and in	the subsequent se	emester			
11-EPP-161-m01		n to Plasma								
	ECTS 6	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses		Modu	2) + R (2) odule taught in: German or English						
	Method of a	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) pre	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						
			Langu							
			Asses							
11-MRI-171-m01	Advanced Magnetic Resonance Imaging									
	ECTS 6	Duratio	4	1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses		V (3)							
	AA () C		Module taught in: English a) written examination (approx. 90 to 120 minutes) or							
	Method of a	assessment	a) wri	tten examination ((approx. 90 to 120 minutes) or one candidate each (approx. 30 minutes) or					
			c) ora	l examination in g	roups (groups of 2, approx. 30 minutes) of	ate) or				
			d) pro	d) project report (approx. 8 to 10 pages) or						
					oprox. 30 minutes)	a shangad and as	coccment may instead take the			
					was chosen as method of assessment, this may be ation of one candidate each or an oral examination					
					n students about this by four weeks prior to the original to t					
			Langu	uage of assessmer	nt: German and/or English					
			Asses	ssment offered: In	the semester in which the course is offered and in	the subsequent se	emester			

11-STRG1-171-m01	String Theory 1										
	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						
	Method	d of asso	essment		written examination (approx. 90 to 120 minutes) or						
					oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or						
				d) pro	ject report (approx	x. 8 to 10 pages) or	, -				
				e) pre	sentation/talk (ap	prox. 30 minutes)					
				form of	itten examination of an oral examina	was chosen as method of assessment, this may be tion of one candidate each or an oral examination in	cnanged and as:	sessment may instead take the lethod of assessment is changed			
						students about this by four weeks prior to the original					
				Langu	age of assessmen	it: German and/or English					
			'	Asses	sment offered: In	the semester in which the course is offered and in t	he subsequent se	emester			
11-STRG2-171-m01	String						1				
		6	Duration		1 semester	Method of grading numerical grade	Modul level	graduate			
	Course				3) + R (1) dule taught in: German or English						
	Method	d of asso	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						
				Asses							
11-SLQ-232-m01	Black Holes										
	ECTS	6	Duration		1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		V (3) +		F 18.1					
				Module taught in: German or English a) written examination (approx. 90 to 120 minutes) or							
	Method	of asso	essment	a) wrii	tten examination (Levamination of o	approx. 90 to 120 minutes) or ne candidate each (approx. 30 minutes) or					
				c) ora	l examination in g	roups (groups of 2, approx. 30 minutes) of	te) or				
				d) pro	d) project report (approx. 8 to 10 pages) or						
						prox. 30 minutes).					
					f 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,						
						students about this by four weeks prior to the original					
				Langu	age of assessmen	it: German and/or English					
				Asses	sment offered: In	the semester in which the course is offered and in t	he subsequent se	emester			

Module Area B: Foo	us Subj	ect-bas	ed Didact	ics (10	ECTS credits)							
MINT-B1-162-m01	Advanc	ed Sub	ject Didac	tics 1								
	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			+ Ü (1)	_						
					dule taught in: German and/or English urse type: alternatively S (2) or P (2) instead of Ü (1)							
	AA - 41											
	Method	or ass	essment			pprox. 90 to 120 min le candidate each (20						
					k (30 to 60 minutes)		10 40 mmutes) of					
				d) pra	actical assignment i	ncluding report (appr	ox. 10 to 20 pages) and talk (ap	oprox. 15 minute	es) or			
				e) ter	m paper (approx. 15	to 25 pages, usually	chosen)					
				Langi	uage of assessment table for bonus	: German and/or Engl	lish					
MINT-B2-162-m01	Advanc	ed Sub	ject Didac		lable for bollus							
Will B2 102 mor		5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course			V (2)	+ Ü (1)							
					ıle taught in: Germa							
						y S (2) or P (2) instead			_			
	Method	d of ass	essment	a) wri	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							
					f) 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							
		1	1 1.									
		ernational, interdisciplinary research (10 ECTS credits)										
MINT-C1-162-m01	Resear					Tag (1 1 6 1)		l	T			
		5	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course	S			+ Ü (1)	n and for English						
					Module taught in: German and/or English Course type: alternatively S (2) or P (2) instead of Ü (1)							
	Method	of ass	essment									
	Method of assessment			b) ora	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							
						ncluding report (appr s to 25 pages, usually		oprox. 15 minute	es) or			
						: German and/or Engl						
					table for bonus	. Johnson and, or Engl						

MINT-C2-162-m01	Scientific Internship									
	ECTS 5 Duration	1 semester Method of grading (not) successfully completed Modul level graduate								
	Courses	V (2) + Ü (1)								
		lodule taught in: German and/or English ourse type: alternatively S (2) or P (2) instead of Ü (1)								
	Method of assessment) written examination (approx. 90 to 120 minutes) or								
		b) oral examination of one candidate each (20 to 40 minutes) or c) talk (30 to 60 minutes) or								
		d) practical assignment including report (approx. 10 to 20 pages) and talk (approx. 15 minutes) or								
		e) term paper (approx. 15 to 25 pages, usually chosen) Language of assessment: German and/or English Creditable for bonus								
Module Area D: Sul	bject specific key skills (1	ECTS credits)								
MINT-D1-162-m01	Key Competences for Teaching Professions 1									
	ECTS 5 Duration	5 · · · · · · · · · · · · · · · · · · ·								
	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 Te	aching Professions 2								
	ECTS 5 Duration									
	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								

Module Area E: Master Thesis (30 ECTS credits)											
MINT-MA-162-mo1	Master	laster-Thesis									
	ECTS 30 Duration				1 semester	Method of grading	numerical grade	Modu	l level	graduate	
	Course	S		No co	urses assigned to m	odule					
	Method	d of asse	essment	Maste Langu	Master's thesis (approx. 6o pages) Language of assessment: German and/or English						
	Additional Information Time to complete: 6 months.										