

Annex SFB

Studienfachbeschreibung (subject description, SFB) for the subject FOKUS Physics as a Master's with 1 major with the degree "Master of Science" (120 ECTS credits)

Responsible: Faculty of Physics and Astronomy

Examination regulations version: 2010

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.

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

ASP02007

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

21-Sep-2010 (2010-61)

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

Every module will be described using the following form:

Abbreviation	Module title	Module title												
	ECTS		Duration	(in semesters)	Method of grading		Module level							
	Courses		To be spe	o be specified in the form X (y) with course type X abbreviated as specified above and number of weekly contact hours y										
	Method of as	ssessm	ent											
	Only after su completion of		ıl if applica	f applicable										
	Other prereq	uisites	if applica	if applicable										
	Participants on of places		ocati- if applica	if applicable										
	Additional information		ion if applica	if applicable										
	Referred to in	n LPO I	if applica	if applicable (examination regulations for teaching-degree programmes)										

Compulsory Course	es (50 EC	TS cred	lits)									
11-FPP-072-m01	FOKUS	Project	Practical	Cours	e Physics							
	ECTS	10	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			P (no	P (no information on SWS (weekly contact hours) and course language available)							
				placement report / fieldwork report / report on practical training / report on practical course / project report / report on technical course (approx. 20 pages) and talk (approx. 30 minutes) on respective topic researched Language of assessment: German or English								
11-FS-PF-072-m01	Profess	ofessional Specialization FOKUS Physics										
	ECTS	15	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (no	information on SWS	(weekly contact hou	rs) and course language availab	ole)				
	Method	d of asse			alk with discussion (approx. 30 to 45 minutes) anguage of assessment: German or English							
11-MP-PF-072-m01	Scienti	fic Meth	ods and	Project	Management FOKU	S Physics						
	ECTS	15	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S	-	R (no	information on SWS	(weekly contact hou	rs) and course language availat	ole)				
	Method	d of asse	essment	talk with discussion (approx. 30 to 45 minutes) Language of assessment: German or English								
11-OSP-072-m01	Advanc	ed Sem	inar Expe	riment	al/Theoretical Phys	ics						
	ECTS	4	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			S (no information on SWS (weekly contact hours) and course language available)								
	Method of assessment			talk with discussion (approx. 30 to 45 minutes)								

11-PFM-072-m01	Advan	ced Prac	tical Cou	rse Master	,									
	ECTS	6	Duratio	1 semester	Method of grading	(not) successfully completed	Modul level	graduate						
	Courses				Fortgeschrittenen-Praktikum Master (Advanced Practical Course Master) Part 1: P (3 weekly contact hours), German or English Fortgeschrittenen-Praktikum Master (Advanced Practical Course Master) Part 2: P (3 weekly contact hours), German or English									
	Metho	d of asse	essment	1. Lab course in par riment will be cor Performing and e pare an experime 2. Lab course in par riment will be cor Performing and e pare an experime Language of assess Students must regis Students will be off sessment compone	residered successfully come valuating the experiment vert log (approx. 8 pages). It 2 (Fortgeschrittenen-Prakasidered successfully come valuating the experiment vert log (approx. 8 pages). It is defined as seen for assessment comported one opportunity to resent, they must pass both elevaluating the experiment comportunity to resent, they must pass both elevaluating the experiment.	tikum Master/Advanced Practicoleted if an oral test (approx. 30 vill be considered successfully atikum Master/Advanced Practicoleted if an oral test (approx. 30 vill be considered successfully vill be considered successfully annual 2 online (details to other test).	o minutes) is pa completed if a t cal Course Mast o minutes) is pa completed if a t o be announced) t b) in the respe emester.	ctive semester. To pass an as-						
	Modul	es succe eted	ssfully	11-E1, 11-E2	e, stadents must pass bott	. assessment component I und	. 4336331116111 60							
	other p	rerequis	sites	11-A3										

Compulsory Electives (40 ECTS credits)

The area of mandatory electives (40 ECTS credits) comprises: mandatory electives area SP ("Spezialausbildung Physik" ("Special Training Physics")): 24 ECTS credits. mandatory electives area FP ("Forschungsmodule Physik" ("Research Modules Physics")): 16 ECTS credits. Within the area SP, modules are grouped together by subject. Students may select modules worth a maximum of 24 ECTS credits from one of these module groups. Students also have the option to select modules from different module

groups and worth different numbers of credits (total number of credits achieved must be 24). The Faculty will specify whether a specific module belongs to group "Theoretische Physik" ("Theoretical Physics") or group "Experimentalle Physik" ("Experimental Physics") (for the purpose of calculating the overall grade).

Compulsory Electives Specialisation Physics (24 ECTS credits)

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Applied Physics ar	d Metro	ology (24	ECTS cre	edits)									
11-MOE-092-m01	Opto-	electroni	c Materia	l Prop	Properties								
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade		Modul level	graduate			
	Course	es		V + Ü	V + Ü (no information on SWS (weekly contact hours) and course language available)								
	Metho	d of asse	essment	prox.	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes)								
	other prerequisites			to qua cours obtain for as	Admission prerequisite to assessment: successful completion of approx. 50% of exercises. Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.								
11-0HL-092-m01	Organic Semiconductor												
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade		Modul level	graduate			
	Course	es		V + Ü	(no information on S	SWS (weekly contact	hours) and course la	anguage ava	ilable)				
	Method of assessment			prox.	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes)								
	other prerequisites			to qua cours obtain for as	alify for admission to e. Registration for the ned the qualification sessment into effec	o assessment. The le re course will be cons r for admission to ass t. Students who mee	cturer will inform stu sidered a declaration sessment over the co t all prerequisites wil	idents about n of will to se ourse of the ll be admitte	the respective the respective that admission semester, the do to assessment	Certain prerequisites must be met e details at the beginning of the to assessment. If students have lecturer will put their registration ent in the current or in the subsenfor admission to assessment an-			
11-A2-081-m01	Electro	onics											
	ECTS	6	Duratio	n	1 semester	Method of grading	numerical grade		Modul level	undergraduate			
	Courses			V + Ü (no information on SWS (weekly contact hours) and course language available)									
	Metho	d of asse	essment	t written examination (approx. 90 minutes)									

11-ASI-092-m01	Reprod	Reproducing Sensors in Infrared												
	ECTS	3	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Course	S		V + R	(no information on	SWS (weekly contact	hours) and course language av	ailable)						
	Method	d of ass	essment	prox. to 10 Asses nound 2009.	Language of assessment: German, English									
	other p	rerequi	sites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.										
11-ASL-092-m01	Applied Superconduction													
	ECTS	6	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	S		R + V	R + V (no information on SWS (weekly contact hours) and course language available)									
	Method of assessment			a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (ap prox. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 30 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: once a year, winter semester Language of assessment: German, English										
	other prerequisites			tive d on to the le sessn	etails at the begin assessment. If stu cturer will put thei nent in the current	ning of the course. Reg dents have obtained t r registration for asses	gistration for the course will be he qualification for admission t sment into effect. Students wh	considered a de to assessment o o meet all prere	form students about the respec- claration of will to seek admissi- ver the course of the semester, quisites will be admitted to as- nts will have to obtain the quali-					

11-EBV-092-m01	Principles of Image Processing												
	ECTS	3	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	25		V + R	(no information on	SWS (weekly contact	hours) and course language ava	ailable)					
	Metho	d of asso		prox. to 10 Asses nound 2009.	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English								
	otherp	orerequi		Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.									
11-ENT-092-m01	Principles of Energy Technologies												
	ECTS 6 Duratio			1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	25		R + V (no information on SWS (weekly contact hours) and course language available)									
	Metho	d of asse		a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (a prox. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be a nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English									
	otherp	orerequi		tive do on to the le sessm	etails at the beginr assessment. If stud cturer will put their nent in the current	ning of the course. Reg dents have obtained tl r registration for asses	gistration for the course will be on the qualification for admission to sment into effect. Students who	considered a de o assessment o o meet all prere					

11-EPP-092-m01	Introdu	ction to Plas	aphysic	S							
	ECTS	6 Dura	ion	1 semester	Method of grading numerical grade		Modul level	graduate			
	Courses	S	V + R	(no information o	n SWS (weekly contact hours) and course l	anguage av	ailable)				
	Method	l of assessme	prox. to 10 Asse nour	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English							
	other p	rerequisites	tive on to the lo	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.							
11-HLF-092-m01	Semiconductor Lasers - Principles and Current Research										
	ECTS	6 Dura	ion	1 semester	Method of grading numerical grade		Modul level	graduate			
	Courses	S	R + V	(no information o	n SWS (weekly contact hours) and course l	anguage av	ailable)				
	Method	l of assessme	prox. to 10 Asse nour	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in gro prox. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (a to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and wi nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regula 2009. Language of assessment: German, English							
	other p	rerequisites	tive on to the lo sess	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.							

11-KVM-092-m01	Principle	es of Classificat	ion of Patt	erns						
	ECTS 3	3 Duration	1 1 5	emester	Method of grading numerical grade		Modul level	undergraduate		
	Courses				n SWS (weekly contact hours) and course la					
	Method o	of assessment	minutes p ges, time Assessme nounced 2009.	written examination (90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 linutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 paes, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) ssessment offered: When and how often assessment will be offered depends on the method of assessment and will be anounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009.						
	other pre	erequisites	tive detai on to asso the lectur sessment	ls at the begin essment. If stu er will put thei t in the current	ust be met to qualify for admission to assest ning of the course. Registration for the courdents have obtained the qualification for a registration for assessment into effect. Story or in the subsequent semester. For assess a assessment anew.	rse will be c dmission to udents who	considered a de o assessment o o meet all prere	claration of will to seek admissiver the course of the semester, quisites will be admitted to as-		
11-LVW-092-m01	Introduct	tion to LabVIEW	i							
	ECTS 6	6 Duration	1 1 5	emester	Method of grading numerical grade		Modul level	graduate		
	Courses		V + Ü (no	information or	n SWS (weekly contact hours) and course la	inguage ava	ailable)			
	Method o	of assessment	prox. 30 r to 10 pag prox. 60 r Assessme nounced 2009.	ninutes per ca es, time to con minutes) ent offered: Wh in due form un	(approx. 90 minutes) or b) oral examination ndidate, for modules with less than 4 ECTS inplete: 1 to 4 weeks) or d) presentation/ser nen and how often assessment will be offer ider observance of Section 32 Subsection 3 int: German, English	credits app minar prese ed depends	orox. 20 minute ntation (approx s on the metho	s) or c) project report (approx. 8 k. 30 minutes) or e) project (apd of assessment and will be an-		
	other pre	erequisites	tive detai on to asso the lectur sessment	ls at the begin essment. If stu er will put thei t in the current	ust be met to qualify for admission to asses ning of the course. Registration for the cour idents have obtained the qualification for a ir registration for assessment into effect. Stop or in the subsequent semester. For assess coassessment anew.	rse will be c dmission to udents who	considered a de o assessment o o meet all prere	claration of will to seek admissiver the course of the semester, quisites will be admitted to as-		

11-TDO-092-m01	Thermo	dynami	cs and Eco	onomi	cs						
	ECTS	6	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	5		R + V (no information on SWS (weekly contact hours) and course language available)							
	Method	l of asse		a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English							
	other p	rerequis		Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.							
11-EXE5-111-m01	Current Topics in Experimental Physics										
	ECTS 5 Duratio			ı	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	5		V + R ((no information on	SWS (weekly contact	hours) and course language	available)			
	Method of assessment			a) written examination (approx. 120 minutes, for modules with less than 4 ECTS credits approx. 90 minutes; unless otherwis specified) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to weeks) or d) presentation/seminar presentation (approx. 30 minutes) Language of assessment: German, English							
	other p	rerequis	sites	Appro	val by examinatior	committee required.					
11-EXE6-111-m01	Current	Topics	in Experin	mental	Physics						
	ECTS	6	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	5	,	V + R ((no information on	SWS (weekly contact	hours) and course language	available)			
	Method	l of asse		a) written examination (approx. 120 minutes, for modules with less than 4 ECTS credits approx. 90 minutes; unless otherwise specified) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Language of assessment: German, English							
	other prerequisites			Appro	val by examinatior	committee required.	,	,			

11-EXE7-111-m01	Current Topics in Experimental Physics												
	ECTS 7	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate						
	Courses	<u> </u>	V + R (no information	on SWS (weekly contact	hours) and course language	available)							
	Method of	assessment	specified) or b) oral ex modules with less tha weeks) or d) presenta	a) written examination (approx. 120 minutes, for modules with less than 4 ECTS credits approx. 90 minutes; unless otherwise specified) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Language of assessment: German, English									
	other prere	quisites	Approval by examinat	Approval by examination committee required.									
11-EXE8-111-mo1	Current Top	oics in Experi	mental Physics										
	ECTS 8	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate						
	Courses		V + R (no information	on SWS (weekly contact	hours) and course language	available)							
	Method of	assessment	specified) or b) oral ex modules with less tha weeks) or d) presenta	written examination (approx. 120 minutes, for modules with less than 4 ECTS credits approx. 90 minutes; unless otherwise recified) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for odules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 eeks) or d) presentation/seminar presentation (approx. 30 minutes) nguage of assessment: German, English									
	other prere	quisites	Approval by examinat	ion committee required.									
11-EXT5-111-m01	Current Topics in Theoretical Physics												
	ECTS 5	Duration		Method of grading	•	Modul level	graduate						
	Courses		V + R (no information on SWS (weekly contact hours) and course language available)										
	Method of	assessment	specified) or b) oral ex modules with less tha	kamination of one candi n 4 ECTS credits approx tion/seminar presentati	date each or oral examinatio	n in groups (appro	ox. 90 minutes; unless otherwise ox. 30 minutes per candidate, for 10 pages, time to complete: 1 to 4						
	other prere	quisites	Approval by examinat	ion committee required.									
11-EXT6-111-mo1	Current Top	oics in Theore	etical Physics										
	ECTS 6	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate						
	Courses		V + R (no information	on SWS (weekly contact	hours) and course language	available)							
	Method of	assessment	specified) or b) oral ex modules with less tha	kamination of one candi n 4 ECTS credits approx tion/seminar presentati	date each or oral examinatio	n in groups (appro	ox. 90 minutes; unless otherwise ox. 30 minutes per candidate, for 10 pages, time to complete: 1 to 4						
	other prere	quisites	Approval by examination committee required.										

11-EXT7-111-m01	Current Topics in Theoretical Physics												
	ECTS	7	Duratio	<u> </u>	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	:S		V + R	no information o	n SWS (weekly contact	hours) and course langu	age available)					
				speci modu week Langi	a) written examination (approx. 120 minutes, for modules with less than 4 ECTS credits approx. 90 minutes; unless otherwise specified) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Language of assessment: German, English								
		rerequi	_		Approval by examination committee required.								
11-EXT8-111-m01			in Theore	etical I	Physics								
	ECTS	8	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			V + R	(no information o	n SWS (weekly contact	hours) and course langu	age available)					
				speci modu week Langi	written examination (approx. 120 minutes, for modules with less than 4 ECTS credits approx. 90 minutes; unless otherwise ecified) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for odules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 peeks) or d) presentation/seminar presentation (approx. 30 minutes) nguage of assessment: German, English								
	other p	rerequi	sites	Appro	Approval by examination committee required.								
o8-PCM4-PHY-111-	Ultrafa	st Spec	troscopy	and Q	uantum Control								
mo1	ECTS 5 Duratio			1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	!S		S + Ü	S + Ü (no information on SWS (weekly contact hours) and course language available)								
	Method of assessment			written examination (90 minutes) or oral examination of one candidate each (20 minutes) or talk (30 minutes) Language of assessment: German or English									
11-ZDR-111-m01	Princip	les of t	wo- and th	reedi	mensional Röntge	n imaging							
	ECTS	6	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	:S		V + R	(no information o	n SWS (weekly contact	hours) and course langu	age available)					
	Method of assessment			a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009.									
	other prerequisites			Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the resp tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admis on to assessment. If students have obtained the qualification for admission to assessment over the course of the semeste the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.									

11-TDOE-141-mo1	Thermodynamics and Economics												
	ECTS	3	Duration	า	1 semester	Method of grading	(not) successfully compl	leted Modul level	graduate				
	Courses	S		V (no	information on SWS	(weekly contact hou	urs) and course language	available)					
	Method	of ass	essment						r oral examination in groups (ap-				
					orox. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes)								
11-BSV-122-m01	Image and Signal Processing in Physics												
	ECTS	6	Duration		1 semester	Method of grading		Modul level	graduate				
	Courses						hours) and course langua	· ·					
				minut prese Asses	written examination (90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 inutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar resentation (approx. 30 minutes) assessment offered: When and how often assessment will be offered depends on the method of assessment and will be anounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009.								
	other prerequisites			Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.									
11-BMS-121-m01	Imaging Methods at the Synchrotron												
	ECTS	4	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses				V + R (no information on SWS (weekly contact hours) and course language available)								
	Method of assessment			a) written examination (90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009.									
	other prerequisites			tive d on to the le sessn	etails at the beginni assessment. If stud cturer will put their	ng of the course. Re ents have obtained t registration for asses r in the subsequent	gistration for the course w he qualification for admis ssment into effect. Studen	rill be considered a d ssion to assessment ats who meet all prer	nform students about the respececlaration of will to seek admissiover the course of the semester, equisites will be admitted to asents will have to obtain the quali-				

11-BMS-131-m01	Imaging	Imaging Methods at the Synchrotron												
	ECTS	4 Durati	on	1 semester	Method of gradi	ng numerical grade		Modul level	graduate					
	Courses	5	V + F	R (no information o	n SWS (weekly conta	act hours) and course la	anguage ava	ilable)						
	Method	of assessmen	prox on/s Asse nour	written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (aprox. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) seessment offered: When and how often assessment will be offered depends on the method of assessment and will be anounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. In guage of assessment: German, English										
	other pr	rerequisites	tive on to the l	rtain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respecte details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissite assessment. If students have obtained the qualification for admission to assessment over the course of the semester, electurer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semesters.										
11-BSV-131-m01	Image a	and Signal Pro	essing	; in Physics										
	ECTS	6 Durati	on	1 semester	Method of gradi	ng numerical grade		Modul level	graduate					
	Courses	5	V + F	R (no information o	n SWS (weekly conta	act hours) and course la	anguage ava	ilable)						
	Method	of assessmen	prox on/s Asse nour 2009	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be an nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English										
	other pr	rerequisites	tive on to the l	details at the begir assessment. If sto ecturer will put the	nning of the course. udents have obtaine	Registration for the cou ed the qualification for a sessment into effect. St	ırse will be co admission to	onsidered a de assessment o	nform students about the respec- eclaration of will to seek admissi- over the course of the semester, equisites will be admitted to as-					
11-QUI-132-m01		m Information	Techno	logy										
		6 Durati		1 semester		ng numerical grade		Modul level	graduate					
	Courses					act hours) and course la								
	Method	of assessmen	prox on/s Asse nour 2009	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English										

Solid State Physics	s and Na	nostruc	tures (24	ECTS (credits)							
11-MOE-092-m01	Opto-e	lectroni	ic Materia	l Prop	erties							
	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade		Modul level	graduate		
	Course	!S		V + Ü	(no information o	n SWS (weekly contac	t hours) and course la	nguage av	ailable)			
	Method of assessment			prox.) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (aprox. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 10 lages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes)							
	other p	Admission prerequisite to assessment: successful completion of approx. 50% of exercises. Certain protocolor to qualify for admission to assessment. The lecturer will inform students about the respective details course. Registration for the course will be considered a declaration of will to seek admission to assess obtained the qualification for admission to assessment over the course of the semester, the lecturer of for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the quent semester. For assessment at a later date, students will have to obtain the qualification for admit ew.							e details at the beginning of the to assessment. If students have lecturer will put their registration ent in the current or in the subse-			
11-CRP-131-m01	Critica	l Phenoi	mena									
	ECTS	6	Duration	1	1 semester	Method of grading	numerical grade		Modul level	graduate		
	Course	!S		V + R	(no information o	n SWS (weekly contac	t hours) and course lar	nguage av	ailable)			
	Method	d of ass	essment	tion (Asses noun 2009	approx. 30 minute ssment offered: W ced in due form u	es) hen and how often as	sessment will be offere	ed depend	ls on the metho	presentation/seminar presentado of assessment and will be anand examination regulations)		
	other p	rerequi	sites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.						eclaration of will to seek admissi- over the course of the semester, equisites will be admitted to as-		

11-ASL-092-m01	Applied	Super	conduction	<u> </u>		'							
	ECTS	6	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	S	F	R + V ((no information o	n SWS (weekly contact	hours) and course language av	ailable)					
	Method	d of ass	, ,	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: once a year, winter semester Language of assessment: German, English									
	other p	rerequi	t c t	tive de on to a the lee sessm	etails at the begin assessment. If stu cturer will put the nent in the curren	ning of the course. Re udents have obtained t ir registration for asses	gistration for the course will be the qualification for admission to ssment into effect. Students who	considered a de to assessment c o meet all prere	form students about the respec- eclaration of will to seek admissi- over the course of the semester, quisites will be admitted to as- ents will have to obtain the quali-				
11-HLF-092-m01	Semiconductor Lasers - Principles and Current Research												
	ECTS 6 Duration			n 1 semester Method of grading numerical grade Modul level g					graduate				
	Courses	S	F	R + V (no information on SWS (weekly contact hours) and course language available)									
	Method	d of ass	t A r	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups of prox. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations 2009. Language of assessment: German, English									
	other p	rerequi	t t	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.									

11-AHL-092-m01	Applied	d Semic	onductor	Physic	 :s							
	ECTS	6	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		R + V	(no information on	SWS (weekly contact	hours) and course language av	ailable)				
	Method	d of ass	essment	prox. to 10 Asses nound 2009.	written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (aprox. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 o 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) assessment offered: When and how often assessment will be offered depends on the method of assessment and will be anounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) anguage of assessment: German, English ertain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec-							
	other p	orerequi	sites	tive d on to the le sessn	etails at the begini assessment. If stu ecturer will put thei nent in the current	ning of the course. Reg Idents have obtained the Ir registration for asses	gistration for the course will be on the qualification for admission to sment into effect. Students who	considered a de to assessment o o meet all prere	claration of will to seek admissiver the course of the semester,			
11-FK2-092-m01	Solid State Physics 2											
	ECTS 8 Duratio		1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		R + V	R + V (no information on SWS (weekly contact hours) and course language available)							
	Method	d of ass	essment	prox. to 10 Asses nound 2009 Langu	Language of assessment: German, English							
	other p	rerequi	sites	tive d on to the le sessn	etails at the begini assessment. If stu cturer will put thei nent in the current	ning of the course. Reg Idents have obtained the Ir registration for asses	gistration for the course will be on the qualification for admission to sment into effect. Students who	considered a de to assessment o o meet all prere	form students about the respec- claration of will to seek admissi- ver the course of the semester, quisites will be admitted to as- nts will have to obtain the quali-			

11-FKS-092-m01	Solid State Spectroscopy											
	ECTS	6	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		R + V	(no information on	SWS (weekly contact l	nours) and course language av	⁄ailable)				
	Method	d of asse		prox. to 10 p Asses nound 2009.	30 minutes per car pages, time to com sment offered: Wh ted in due form und	ndidate, for modules w plete: 1 to 4 weeks) or en and how often asse der observance of Sect	ith less than 4 ECTS credits ap d) presentation/seminar pres	prox. 20 minute entation (approx ds on the metho	d of assessment and will be an-			
	other p	rerequis		tive do on to the le	etails at the beginr assessment. If stud cturer will put their nent in the current	ning of the course. Reg dents have obtained the registration for asses	istration for the course will be ne qualification for admission sment into effect. Students wh	considered a de to assessment o to meet all prere	form students about the respec- eclaration of will to seek admissi- over the course of the semester, quisites will be admitted to as- ents will have to obtain the quali-			
11-FKT-092-m01	Transp	ort Phei	nomena ir	ı Solid	S							
	ECTS	6	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		R + V	(no information on	SWS (weekly contact l	nours) and course language av	/ailable)				
	Method	d of asse		prox. to 10 p Asses nound 2009.	30 minutes per car pages, time to com sment offered: Wh ted in due form und	ndidate, for modules we plete: 1 to 4 weeks) or en and how often asseder observance of Sect	ith less than 4 ECTS credits ap d) presentation/seminar pres	prox. 20 minute entation (approx ds on the metho	d of assessment and will be an-			
	other p	rerequis		Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.								

11-HLP-092-m01	Semiconductor Physics												
	ECTS	6	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		R + V	(no information on	SWS (weekly contact	hours) and course language av	ailable)					
	Method	d of ass		prox. to 10 Asses nound 2009.	30 minutes per car pages, time to com sment offered: Wh ced in due form und	ndidate, for modules we plete: 1 to 4 weeks) or en and how often assider observance of Sec	vith less than 4 ECTS credits ap r d) presentation/seminar prese	prox. 20 minute entation (approx Is on the metho	d of assessment and will be an-				
	other p	rerequi		tive do on to the le sessm	etails at the beginr assessment. If stud cturer will put thein nent in the current	ling of the course. Reg dents have obtained t registration for asses	gistration for the course will be on the qualification for admission to sment into effect. Students who	considered a de to assessment o o meet all prere	form students about the respectorial respectorial forms to seek admissiver the course of the semester, quisites will be admitted to asnts will have to obtain the quali-				
11-HNS-092-m01	Semiconductor Nanostructures												
	ECTS 6 Duratio			1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		R + V	(no information on	SWS (weekly contact	hours) and course language av	ailable)					
	Method	d of ass		prox. to 10 Asses nound 2009.	30 minutes per car pages, time to com sment offered: Wh ced in due form und	ndidate, for modules we plete: 1 to 4 weeks) or en and how often assider observance of Sec	vith less than 4 ECTS credits ap r d) presentation/seminar prese	prox. 20 minute entation (approx Is on the metho	d of assessment and will be an-				
	other p	rerequi		Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.									

11-LHQ-092-m01	Lithogr	aphy in	Semicon	ductor	Technology and	Theory of Quantum Tran	sport					
	ECTS	6	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		R + V	(no information o	n SWS (weekly contact h	nours) and course language ava	ailable)				
	Method	d of asse		prox. to 10 p Asses nound 2009.	30 minutes per ca pages, time to con sment offered: W ced in due form un	andidate, for modules windles windles in to 4 weeks) or hen and how often asse	ith less than 4 ECTS credits app d) presentation/seminar prese	prox. 20 minute entation (approx Is on the metho	d of assessment and will be an-			
	other p	rerequis		on to the le	ertain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, ne lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualication for admission to assessment anew.							
11-MAG-092-m01	Magnetism											
	ECTS	6	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		R + V	(no information o	n SWS (weekly contact h	nours) and course language ava	ailable)				
	Method	d of asse	essment	prox. to 10 p Asses nound 2009.	30 minutes per ca pages, time to con sment offered: W ced in due form un	andidate, for modules windidate, for modules windidate. 1 to 4 weeks) or hen and how often asse	ith less than 4 ECTS credits app d) presentation/seminar prese	prox. 20 minute entation (approx Is on the metho	d of assessment and will be an-			
	other p	rerequis		Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.								

11-MST-092-m01	Magnet	ism and Spi	n Transp	ort							
	ECTS	6 Dur	ation	2 semester	Method of grading numerical grade		Modul level	graduate			
	Courses	5	V +	R + V (no information	on on SWS (weekly contact hours) and course	language	available)				
	Method	l of assessm	pro. to 1 Ass nou 200	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English							
	other p	rerequisites	tive on t the ses	details at the beging assessment. If st lecturer will put the sment in the curren	nust be met to qualify for admission to assess nning of the course. Registration for the course udents have obtained the qualification for ad- eir registration for assessment into effect. Stud t or in the subsequent semester. For assessment anew.	e will be c mission to dents who	considered a de o assessment c o meet all prere	eclaration of will to seek admissi- over the course of the semester, quisites will be admitted to as-			
11-NAN-092-m01	Nanoanalytics										
	ECTS 6 Duration			1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses	5	R +	R + V (no information on SWS (weekly contact hours) and course language available)							
	Method	l of assessm	pro. to 1 Ass nou 200	x. 30 minutes per ca o pages, time to co essment offered: W Inced in due form u	(approx. 90 minutes) or b) oral examination of andidate, for modules with less than 4 ECTS c mplete: 1 to 4 weeks) or d) presentation/semination and how often assessment will be offered and not observance of Section 32 Subsection 3 And and the forman, English	redits app inar prese d depends	orox. 20 minute ntation (approx s on the metho	es) or c) project report (approx. 8 x. 30 minutes) d of assessment and will be an-			
	other p	rerequisites	tive on t the ses	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.							

11-NDS-092-m01	Low-Din	nensional Struct	ures								
	ECTS	4 Duratio	n	1 semester	Method of grading num	nerical grade	Modul level	graduate			
	Courses	;	R + V	(no information o	n SWS (weekly contact hour	s) and course language av	ailable)				
	Method	of assessment	prox. to 10 Asses nound 2009	Language of assessment: German, English							
	other pr	erequisites	tive d on to the le sessn	etails at the begin assessment. If stu cturer will put the nent in the current	ning of the course. Registra Idents have obtained the qu Ir registration for assessmer	tion for the course will be a lalification for admission to t into effect. Students who	considered a de to assessment o o meet all prere	oform students about the respec- eclaration of will to seek admissi- over the course of the semester, quisites will be admitted to as- ents will have to obtain the quali-			
11-NEL-092-m01	Nanoelectronics										
	ECTS	6 Duratio	n	1 semester	Method of grading num	Modul level	graduate				
	Courses	3	R + V	R + V (no information on SWS (weekly contact hours) and course language available)							
	Method	of assessment	prox. to 10 Asses nound	30 minutes per ca pages, time to cor ssment offered: W ced in due form ur	ndidate, for modules with lonplete: 1 to 4 weeks) or d) penen and how often assessm	ess than 4 ECTS credits ap resentation/seminar prese ent will be offered depend	prox. 20 minute entation (approx Is on the metho	oral examination in groups (apes) or c) project report (approx. 8 x. 30 minutes) d of assessment and will be anand examination regulations)			
	other pr	erequisites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.								

11-NOP-092-m01	Nano-O	ptics				,				
	ECTS	4	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Course				<u>`</u>		hours) and course language av			
	Method	d of asse		prox. to 10 Asses nound 2009.	30 minutes per ca pages, time to con sment offered: Wh ced in due form un	ndidate, for modules aplete: 1 to 4 weeks) c aen and how often ass	with less than 4 ECTS credits ap or d) presentation/seminar pres	prox. 20 minute entation (approx ds on the metho	d of assessment and will be an-	
	other p	rerequis		tive do on to the le sessm	etails at the begin assessment. If stu cturer will put thei nent in the current	ning of the course. Re dents have obtained r registration for asse	gistration for the course will be the qualification for admission ssment into effect. Students wh	considered a de to assessment o to meet all prere	oform students about the respec- eclaration of will to seek admissi- over the course of the semester, quisites will be admitted to as- ents will have to obtain the quali-	
11-QM2-092-m01	Quantum Mechanics II									
	ECTS 8 Duratio								undergraduate	
	Course	S		R + V	(no information or	SWS (weekly contact	hours) and course language av	⁄ailable)		
	Method	d of asse	essment	prox. to 10 Asses nound 2009.	30 minutes per ca pages, time to con sment offered: Wh ced in due form un	ndidate, for modules aplete: 1 to 4 weeks) c aen and how often ass	with less than 4 ECTS credits ap or d) presentation/seminar pres	prox. 20 minute entation (approx ds on the metho	d of assessment and will be an-	
	other p	rerequis		Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.						

11-QPM-092-m01	Quantu	ım Phen	omena in	electr	onic correlated M	aterials							
	ECTS	6	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		R + V ((no information or	SWS (weekly contact	hours) and course language ava	ailable)					
	Method	d of asso		prox. 3 to 10 p Asses nounc 2009.	go minutes per ca pages, time to con sment offered: Wh ted in due form un	ndidate, for modules vales in the second of	with less than 4 ECTS credits apport of the contraction of the contrac	prox. 20 minute entation (approx Is on the metho	d of assessment and will be an-				
	other p	rerequi		tive de on to a the lea sessm	ertain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, ne lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualication for admission to assessment anew.								
11-QVTP-092-m01	Many Body Quantum Theory												
	ECTS 8 Duratio			1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		R + V ((no information or	SWS (weekly contact	hours) and course language ava	ailable)					
	Method	d of asso		prox. 3 to 10 p Asses nounc 2009.	go minutes per ca pages, time to con sment offered: Wh ed in due form un	ndidate, for modules vales in the second of	with less than 4 ECTS credits apport of the contraction of the contrac	prox. 20 minute entation (approx Is on the metho	d of assessment and will be an-				
	other p	rerequi		on to a the lea	etails at the begin assessment. If stu cturer will put thei nent in the current	ning of the course. Reg dents have obtained t r registration for asses	gistration for the course will be on the qualification for admission the sament into effect. Students who	considered a de o assessment o o meet all prere					

11-RMS-092-m01	Relativi	stic Effects in N	esosco	pic Systems								
	ECTS	5 Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	5	R + V	(no information o	n SWS (weekly contac	t hours) and course language av	/ailable)					
	Method	of assessment	prox. to 10 Asses nound 2009.	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English								
	other pi	rerequisites	tive d on to the le sessn	etails at the beging assessment. If stacturer will put the nent in the curren	nning of the course. Re udents have obtained ir registration for asse	gistration for the course will be the qualification for admission ssment into effect. Students wh	considered a de to assessment c o meet all prere	nform students about the respec- eclaration of will to seek admissi- over the course of the semester, equisites will be admitted to as- ents will have to obtain the quali-				
11-TFK-092-m01	Theoretical Solid State Physics											
	ECTS	8 Duratio	n	1 semester	Method of grading	Modul level	graduate					
	Courses	5	R + V	(no information o	n SWS (weekly contac	t hours) and course language av	/ailable)					
	Method	of assessment	prox. to 10 Asses nound 2009.	30 minutes per ca pages, time to co ssment offered: W ced in due form u	andidate, for modules mplete: 1 to 4 weeks) hen and how often as	with less than 4 ECTS credits ap or d) presentation/seminar pres	prox. 20 minute entation (appro ds on the metho	d of assessment and will be an-				
	other pi	rerequisites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.									

11-TSL-092-m01	Theory of Superconduction												
	ECTS	5 Duratio	n	1 semester	Method of grading nume	erical grade	Modul level	graduate					
	Courses	i	R + V	R + V (no information on SWS (weekly contact hours) and course language available)									
	Method	of assessment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English										
	other pr	erequisites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.										
11-RMFT-102-m01	Renormalization Group Methods in Field Theory												
	ECTS	6 Duratio	n	1 semester	Method of grading nume	erical grade	Modul level	graduate					
	Courses				SWS (weekly contact hours)		•						
	Method	of assessment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English										
	other pr	erequisites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.										

11-SPI-102-m01	Spintronics												
	ECTS	6	Duration)	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	S		V + R	(no information on	SWS (weekly contact hours) and course language	available)						
	Method	d of asse		prox. to 10 p Asses nound 2009.	Language of assessment: German, English								
	other p	rerequis		Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.									
11-MSS-102-m01	Methods in Surface Spectroscopy												
	ECTS 4 Duratio			1	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	S		V (no	information on SW	S (weekly contact hours) and course language avail	ilable)						
	Method	d of asse		a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English									
	other p	rerequis		Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.									

11-EEW-102-m01	Electron Elec	Electron Electron Interaction												
	ECTS 4	Duratio	n 1	semester	Method of grading	numerical grade	Modul level	graduate						
	Courses		V + R (nc	V + R (no information on SWS (weekly contact hours) and course language available)										
	Method of as	sessment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English											
	other prerequ	uisites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.											
11-TFK2-111-m01	Theoretical Solid State Physics 2													
	ECTS 8	Duratio	n 1	semester	Method of grading	numerical grade	Modul level	graduate						
	Courses		V + R (no information on SWS (weekly contact hours) and course language available)											
	Method of as	sessment	prox. 30 to 10 pag Assessm nounced 2009.	minutes per cand ges, time to comp nent offered: Whe I in due form und	didate, for modules w blete: 1 to 4 weeks) on In and how often ass	vith less than 4 ECTS credits ap r d) presentation/seminar prese	prox. 20 minute entation (approx s on the metho	d of assessment and will be an-						
	other prerequ	uisites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.											

11-IEM-111-m01	Introduction to Electron Microscopy												
	ECTS	4	Duration	1	1 semester	Method of gradi	ng numerical	grade	Modul level	graduate			
	Course	S		V + R	no information on	SWS (weekly cont	act hours) and	course language av	ailable)				
	Method	Method of assessment			a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English								
	other prerequisites			tive d on to the le sessn	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.								
11-FTFK-112-m01		<u>-</u>	Solid Sta		sics					_			
	ECTS	8	Duration		1 semester	Method of gradi	-		Modul level	graduate			
	Course	S		V + R (no information on SWS (weekly contact hours) and course language available)									
	wetnod	Method of assessment			a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009.								
	other prerequi:			tive d on to the le sessn	etails at the beginr assessment. If stu cturer will put thein nent in the current	ning of the course. dents have obtaine r registration for as	Registration for ed the qualificates sessment into nt semester. Fo	the course will be on the course will be on the course will be on the course who says the course will be course with the course will be on the course will be course with the course will be compared with the course will be course will be compared with the course will	considered a de o assessment c o meet all prere	nform students about the respec- eclaration of will to seek admissi- over the course of the semester, equisites will be admitted to as- ents will have to obtain the quali-			
11-DFT-142-m01	Density	/ Functi	onal Theo	ry and	the Physics of Ox	ide Heterostructur	e						
	ECTS	4	Duration	1	1 semester	Method of gradi	ng numerical	grade	Modul level	graduate			
	Course	S		V + D	(no information on	SWS (weekly cont	act hours) and	course language av	ailable)				
	Method of assessment			minut ges, to Asses nound	a) written examination (90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 p ges, time to complete: approx. 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be ar nounced in due form under observance of Section 32 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English								

11-CMS-122-m01	Computational Materials Science											
	ECTS	8	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V + R	(no information on	SWS (weekly contact	hours) and course language ava	ailable)				
	Method	d of asso		minut prese Asses nound 2009.	a) written examination (90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German or English							
	other p	rerequi		Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.								
11-CMS-131-m01	Computational Materials Science											
	ECTS 8 Duration			1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V + R (no information on SWS (weekly contact hours) and course language available)								
	Method	d of asso		prox. on/se Asses nound 2009.	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English							
	other prerequisites			tive do on to the le	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semesters.							

11-UGS-131-m01	Disorde	ered Sy	stems					,				
	ECTS	4	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V + R	V + R (no information on SWS (weekly contact hours) and course language available)							
	Method	l of ass	essment	prox. on/se Asses noune 2009	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English							
	other prerequisites			tive d on to the le	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semesters.							
11-FKS2-132-m01	Solid State Spectroscopy 2											
	ECTS 6 Duratio			1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	Courses			(no information or	SWS (weekly contact	thours) and course language	available)				
	Method of assessment			prox. on/se Asses noune 2009	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be ar nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English							
11-PMM-132-m01	Physics	s of Adv	anced Ma	terials	5							
	ECTS	6	Duration	<u> </u>	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V + R	(no information or	SWS (weekly contact	t hours) and course language	available)				
	Method	l of ass	essment	prox. on/se Asses noune 2009	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English							

11-TOPO-132-mo1	Topological Order												
	ECTS	6	Duration	 1	1 semester	Method of grading	umerical grade	Modul level	graduate				
	Course	S	Į.	V + R	(no information on	SWS (weekly contact h	ours) and course language	available)	, -				
	Method	d of ass	essment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English									
11-TFP-132-m01	Topolo	gy in S	olid State	Physic	:s								
	ECTS	6	Duration	<u> </u>	1 semester	Method of grading	umerical grade	Modul level	graduate				
	Course	S		V + R	(no information on	SWS (weekly contact h	ours) and course language	available)	•				
	Metrio	201 433	ic sometime.	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be ar nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English									
Astrophysics and F	article F	Physics	(24 ECTS	credit	s)								
11-A4-072-m01	Astrop	hysics											
	ECTS	6	Duration	1	1 semester	Method of grading	umerical grade	Modul level	undergraduate				
	Course	S		V + S	(no information on	SWS (weekly contact h	ours) and course language	available)					
	Method	d of ass	essment		n examination (ap	<u> </u>							
	other prerequisites			Admission prerequisite to assessment: successful completion of approx. 50% of exercises. Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.									
	Participants and allo- cation of places			Only as part of pool of general key skills (ASQ): 15 places. Places will be allocated by lot.									

11-ASM-131-m01	Astronomical Methods												
	ECTS	6	Duration		1 semester	Method of gradin	g numerical grade		Modul level	graduate			
	Course	s		V + R	V + R (no information on SWS (weekly contact hours) and course language available)								
	Method	d of asse		a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English									
	other p	rerequis		Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.									
11-EPP-092-m01	Introduction to Plasmaphysics												
	ECTS	6	Duration		1 semester	Method of gradin	g numerical grade		Modul level	graduate			
	Course	S		V + R	(no information or	SWS (weekly conta	ct hours) and course langu	ıage ava	ilable)				
	Method	d of asse		a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English									
	other p	rerequis		Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.									

11-AKM-092-m01	Cosmology												
	ECTS	6	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			R + V (no information on SWS (weekly contact hours) and course language available)									
	Method	l of asse	p to A n 2	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English									
	other p	rerequis	ti o th s	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.									
11-APL-092-m01	Plasma-Astrophysics												
	ECTS	6	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			<u>`</u>			hours) and course language ava						
	Method	l of asse	p to A n 2	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English									
	other p	rerequis	ti o th	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.									

11-ASP-092-m01	Introduction to Space Physics												
	ECTS	6	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S	,	R + V	(no information on	SWS (weekly contact	hours) and course language ava	ailable)					
	Method	d of asse	essment	prox. to 10 Asses nound 2009.	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English								
	other p	rerequis	sites	tive do on to the le sessm	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.								
11-AWP-092-m01	Atmosphere and Space Physics												
	ECTS 6 Duratio			1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		R + V	R + V (no information on SWS (weekly contact hours) and course language available)								
	Method	d of asse	essment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German or English									
	other p	orerequis	sites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.									

11-GRT-092-m01	Group Theory												
	ECTS	6	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	!S		R + V	(no information or	n SWS (weekly contact	hours) and course language ava	ailable)					
	Metho	d of asso	essment	prox. to 10 Asses nound 2009.	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English								
	otherp	orerequi	sites	tive d on to the le sessn	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.								
11-NMA-092-m01	Numer	Numerical Methods in Astrophysics											
	ECTS 6 Duratio			n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		V + Ü	V + Ü (no information on SWS (weekly contact hours) and course language available)								
	Method	d of asso	essment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English									
	other p	orerequi	sites	tive d on to the le sessn	etails at the begin assessment. If stu cturer will put the nent in the current	nning of the course. Reg udents have obtained the ir registration for asses	gistration for the course will be on the qualification for admission to sment into effect. Students who	considered a de to assessment o o meet all prere					

11-QFT2-092-m01	Quantun	n Field Theory I									
	ECTS	6 Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		R + V	(no information or	SWS (weekly contac	t hours) and course languag	e available)				
	Method	of assessment	prox. to 10 Asses nound 2009.	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English							
	other pre	erequisites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.								
11-RNT-092-m01	Renormalization Theory										
	ECTS	6 Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		R + V	(no information or	SWS (weekly contac	t hours) and course languag	e available)				
	Method	of assessment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in gr prox. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and v nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regul 2009. Language of assessment: German, English								
	other pre	erequisites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.								

11-RQFT-092-m01	Relativ	istical Quan	tumfield T	heory							
	ECTS	8 Du	ation	1 semester	Method of grading numerical grade		Modul level	graduate			
	Course	s	R + \	(no information o	n SWS (weekly contact hours) and course l	anguage av	ailable)				
	Method	d of assessm	prox to 10 Asse nour 2009	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English							
	other p	rerequisites	tive on to the l sess	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.							
11-RTT-092-m01	Theory of Relativity										
	ECTS	6 Du	ation	1 semester	Method of grading numerical grade		Modul level	graduate			
	Course	S	R + V	(no information o	n SWS (weekly contact hours) and course l	anguage av	ailable)				
	Method	d of assessm	prox to 10 Asse nour 2009	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in graphox. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and v nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regul 2009. Language of assessment: German, English							
	other p	rerequisites	tive on to the l sess	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.							

11-TEP-092-m01	Theoret	ical Elementary	Particl	e Physics							
	ECTS	8 Duratio	n	1 semester	Method of grading nume	erical grade	Modul level	graduate			
	Courses		R + V	(no information o	n SWS (weekly contact hours)	and course language av	ailable)				
	Method	of assessment	prox. to 10 Asses nound	anguage of assessment: German, English							
	other pr	erequisites	tive d on to the le sessn	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.							
11-TPE-092-m01	Experimental Particle Physics										
	ECTS	4 Duratio	n	1 semester	Method of grading nume	erical grade	Modul level	graduate			
	Courses		R + V	(no information o	n SWS (weekly contact hours)	and course language av	ailable)				
	Method	of assessment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in group prox. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (ap to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations). Language of assessment: German, English								
	other pr	erequisites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.								

11-TPS-092-m01	Particl	e Physi	cs (Standa	ard Mo	del)	,		,				
	ECTS	8	Duratio	n	1 semester	Method of gradin	g numerical grade		Modul level	graduate		
	Course	S		R + V	(no information o	on SWS (weekly conta	ct hours) and course lan	nguage avai	ilable)			
	Method	d of ass	essment	prox. to 10 Asses nound	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English							
	other prerequisites			tive d on to the le sessn	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.							
11-SUS-092-m01	Supers	ymmet	ry I and II					,				
	ECTS	6	Duratio	n	1 semester	Method of gradin	g numerical grade		Modul level	graduate		
	Course	S		V + R	(no information o	on SWS (weekly conta	ct hours) and course lan	nguage avai	ilable)			
	Method	Method of assessment			a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English							
	other prerequisites		tive d on to the le sessn	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.								
11-AST-092-m01	Theore	tical As	trophysic	.s		, , , , , , , , , , , , , , , , , , ,		·				
	ECTS	6	Duratio	n	1 semester	Method of gradin	g numerical grade		Modul level	graduate		
	Course	es .		R + V	(no information o	on SWS (weekly conta	ct hours) and course lan	nguage avai	ilable)			
	Metho	d of ass	essment	written examination (approx. 120 minutes)								

11-WWB-102-m01	Strong	Interac	tion in Ac	celerat	or Experiments	-					
	ECTS	3	Duration)	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V + R	(no information on	SWS (weekly contact	hours) and course language av	ailable)			
	Method	d of ass		prox. to 10 Asses nound 2009.	Language of assessment: German, English						
	other prerequisites			Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.							
11-APP-111-m01	Practic	al Cour	se Astroph	nysics							
	ECTS	6	Duration)	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Course	S		P (no	information on SWS	(weekly contact hou	ırs) and course language availa	ble)			
	Method of assessment			a) Preparing, performing and evaluating the experiments will be considered successfully completed if a Testat (exam) is passed. Experiments that were not successfully completed can be repeated once. Or b) discussion to test the candidate's understanding of the physics-related contents and results of the experiment (approx. 20 minutes). Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009.							
	other prerequisites			tive do on to the le sessm	etails at the beginn assessment. If stud cturer will put their	ing of the course. Reglents have obtained tregistration for assestration for assestrements	gistration for the course will be on the qualification for admission to sment into effect. Students who	considered a de o assessment o o meet all prere			

11-DTS-111-m01	Particle Radia	tion Detectors									
	ECTS 4	Duration	1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses	V +	Ü (no information o	n SWS (weekly contact hours) and course language	available)						
	Method of ass	pro to 1 Ass nou 200	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English								
	other prerequi	tive on t the ses	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.								
11-MAS-111-mo1	Modern Astrophysics										
	ECTS 4	Duration	1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses	V +	R (no information o	n SWS (weekly contact hours) and course language a	available)						
	Method of ass	pro to 1 Ass nou 200	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in g prox. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulation). Language of assessment: German, English								
	other prerequi	tive on t the ses	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.								

11-ETT-111-m01	Introdu	ction to	Elementa	ary Par	ticle Theory						
	ECTS	4	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		V (no	information on SW:	S (weekly contact hours) and course language availa	ble)				
	Method	d of ass		a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English							
	other p	rerequi		on to a the leasessm	etails at the beginn assessment. If stuc cturer will put their nent in the current o	st be met to qualify for admission to assessment. Thing of the course. Registration for the course will be lents have obtained the qualification for admission to registration for assessment into effect. Students whor in the subsequent semester. For assessment at a lassessment anew.	considered a de to assessment c o meet all prere	eclaration of will to seek admissi- over the course of the semester, equisites will be admitted to as-			
11-QSG-102-m01	Quantum Loop Gravity										
	ECTS	4	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		V + S	(no information on	SWS (weekly contact hours) and course language av	ailable)				
				b) ora less th c) pro d) pre Langu Asses nound 2009.	l examination of on nan 4 ECTS credits a ject report (approx. sentation/seminar age of assessment sment offered: Who ted in due form unc	en and how often assessment will be offered depender observance of Section 32 Subsection 3 ASPO (gen	ds on the metho neral academic	nd of assessment and will be anand examination regulations)			
	other prerequisites			on to a the leasessm	etails at the beginn assessment. If stuc cturer will put their nent in the current o	st be met to qualify for admission to assessment. Thing of the course. Registration for the course will be lents have obtained the qualification for admission tregistration for assessment into effect. Students whor in the subsequent semester. For assessment at a lassessment anew.	considered a de to assessment c o meet all prere	eclaration of will to seek admissi- over the course of the semester, equisites will be admitted to as-			

11-ATT-111-m01	Concepts of Theoretical Astroparticle physics											
	ECTS 4	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		V + R	(no information or	SWS (weekly contact	hours) and course language av	ailable)					
	Method of ass	sessment	prox. to 10 Asses									
	other prerequ	isites	tive d on to the le sessn	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.								
11-ART-112-m01	General Theory of Relativity											
	ECTS 4	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		V + R	(no information or	SWS (weekly contact	hours) and course language av	ailable)					
	Method of ass	sessment	prox. to 10 Asses	30 minutes per ca pages, time to con ssment offered: Wh ced in due form un	ndidate, for modules v nplete: 1 to 4 weeks) o nen and how often ass	with less than 4 ECTS credits ap r d) presentation/seminar prese	prox. 20 minute entation (approx Is on the metho	d of assessment and will be an-				
	other prerequ	isites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.									

11-SRT-112-m01	Special Theory of Relativity											
	ECTS	4	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses						hours) and course language av					
	Method	l of asse	p to A n	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009.								
	other p	rerequis	ti o th	ive de on to a he lec sessm	etails at the beginn assessment. If stuc cturer will put their ent in the current o	ing of the course. Reg ents have obtained t registration for asses	gistration for the course will be he qualification for admission t ssment into effect. Students wh	considered a de to assessment o o meet all prere	form students about the respec- claration of will to seek admissi- ever the course of the semester, quisites will be admitted to as- ents will have to obtain the quali-			
Complex Systems,	Quantur	n Contr	ol and Biop	hysic	s (24 ECTS credits)							
11-NOP-092-m01	Nano-Optics											
	ECTS	4	Duration		1 semester	Method of grading		Modul level	graduate			
	Courses						hours) and course language av	<u> </u>				
	Method	l of asse	p tc A n 2 L	orox. 3 0 10 p Assess 10unc 2009. angua	go minutes per can pages, time to com sment offered: Who ed in due form und age of assessment	didate, for modules volete: 1 to 4 weeks) of en and how often asser observance of Section	vith less than 4 ECTS credits ap r d) presentation/seminar prese essment will be offered depend tion 32 Subsection 3 ASPO (ge	prox. 20 minute entation (approx Is on the metho neral academic a	d of assessment and will be an- and examination regulations)			
				Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.								

11-BMT-092-m01	Biophy	sical M	easureme	nt Tec	hnology in Medica	l Science						
	ECTS	6	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		R + V	(no information on	SWS (weekly contact	hours) and course language ava	ailable)				
	Method	d of asso		prox. to 10 Asses nound 2009.	anguage of assessment: German, English							
	other p	rerequi		Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.								
11-LMB-092-m01	Labora	Laboratory and Measurement Technology in Biophysics										
	ECTS 6 Duratio			ı	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		R + V	(no information on	SWS (weekly contact	hours) and course language ava	ailable)				
	Method	d of asso		a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English								
	other p	orerequi		tive do on to the le sessm	etails at the beginr assessment. If stud cturer will put thein nent in the current	ning of the course. Reg dents have obtained t r registration for asses	gistration for the course will be on the qualification for admission to disment into effect. Students who	considered a de o assessment o o meet all prere				

11-PKS-092-m01	Physics	of Complex Sys	tems								
	ECTS	6 Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		R + V	(no information o	n SWS (weekly contact h	ours) and course language ava	ailable)				
	Method	of assessment	prox. to 10 Asses nound 2009	Language of assessment: German, English							
	other pro	erequisites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.								
11-QIC-092-m01	Quantum Information and Quantum Computing										
	ECTS	5 Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		R + V	(no information o	n SWS (weekly contact h	ours) and course language ava	ailable)				
	Method	of assessment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in gro prox. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (a to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and wi nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regula 2009. Language of assessment: German, English								
	other pr	erequisites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.								

11-SDC-092-m01	Statistics, D	ata Analysis	and C	omputer Physics					-			
	ECTS 4	Duration	ı	1 semester	Method of gradin	g numerical grade		Modul level	graduate			
	Courses		R + V ((no information on	SWS (weekly contact	ct hours) and course lan	iguage ava	ailable)				
	Method of as	ssessment	prox. 3 to 10 p Asses nound 2009.	anguage of assessment: German, English								
	other prereq	uisites	tive de on to a the lee sessm	tain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respected details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissite assessment. If students have obtained the qualification for admission to assessment over the course of the semester, electurer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assement in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualitation for admission to assessment anew.								
Other Modules Spe	cialisation (2	4 ECTS cred	lits)									
11-SF-4A-072-m01	Module Type	dule Type 4A Special Training Astronomy										
	ECTS 4	Duration	1	1 semester	Method of gradin	g numerical grade		Modul level	graduate			
	Courses		V + R ((no information on	SWS (weekly contact	ct hours) and course lan	iguage ava	ailable)				
	Method of as	ssessment		a) written examination (approx. 90 minutes) or b) talk (approx. 30 minutes) or c) oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or d) project report (approx. 8 pages)								
11-SF-4D-072-m01	Module Type	e 4D Special	cial Training Didactics									
	ECTS 4	Duration		1 semester		g numerical grade		Modul level	graduate			
	Courses			`		ct hours) and course lan						
	Method of as	ssessment				or b) talk (approx. 30 m ites) or d) project report			ation of one candidate each or			
11-SF-4E-072-m01	Module Type	e 4E Special	Trainiı	ng Experimental P	hysics							
	ECTS 4	Duration	1	1 semester	Method of gradin	g numerical grade		Modul level	graduate			
	Courses	·	V + R ((no information on	SWS (weekly contact	ct hours) and course lan	iguage ava	ailable)				
	Method of as	ssessment				or b) talk (approx. 30 m tes) or d) project report			ation of one candidate each or			
11-SF-4l-072-m01	Module Type	Type 4I Special Training Interdisciplinary Research Fields										
	ECTS 4	Duration	1	1 semester	Method of gradin	g numerical grade		Modul level	graduate			
	Courses					ct hours) and course lan						
	Method of as	a) written examination (approx. 90 minutes) or b) talk (approx. 30 minutes) or c) oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or d) project report (approx. 8 pages)										

11-SF-4T-072-m01	Module	Module Type 4T Special Training Theoretical Physics											
	ECTS .	4	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			V + R	(no information on	SWS (weekly contact	hours) and course language a	available)					
	Method	of asse	essment		a) written examination (approx. 90 minutes) or b) talk (approx. 30 minutes) or c) oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or d) project report (approx. 8 pages)								
11-SF-5A-072-m01	Module	Type 5	A Special	Traini	Training Astronomy								
	ECTS 5 Duratio			1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		_				hours) and course language a						
	Method of assessment) written examination (approx. 90 minutes) or b) talk (approx. 30 minutes) or c) oral examination of one candidate each or ral examination in groups (approx. 30 minutes) or d) project report (approx. 10 pages)								
11-SF-5D-072-m01	Module	Type 5	D Specia	l Traini	ng Didactics								
	ECTS	5	Duratio		1 semester	Method of grading		Modul level	graduate				
	Courses				<u> </u>		hours) and course language a						
	Method	od of assessment a) written examination (approx. 90 minutes) or b) talk (approx. 30 minutes) or c) oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or d) project report (approx. 10 pages)											
11-SF-5E-072-m01	Module	Type 5	E Special	Traini	ng Experimental P	hysics							
	ECTS	5	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses						hours) and course language a						
	Method	of asse	essment		a) written examination (approx. 90 minutes) or b) talk (approx. 30 minutes) or c) oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or d) project report (approx. 10 pages)								
11-SF-5l-072-m01	Module	Type 5	I Special	Trainir	raining Interdisciplinary Research Fields								
	ECTS	5	Duratio		1 semester	Method of grading	<u> </u>	Modul level	graduate				
	Courses		_		V + R (no information on SWS (weekly contact hours) and course language available)								
	Method	of asse	essment				r b) talk (approx. 30 minutes) es) or d) project report (approx		nation of one candidate each or				
11-SF-5T-072-m01	Module	Type 5	T Special	Traini	ng Theoretical Phy	rsics							
	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses						hours) and course language a						
	Method	od of assessment a) written examination (approx. 90 minutes) or b) talk (approx. 30 minutes) or c) oral examination of one candidate each oral examination in groups (approx. 30 minutes) or d) project report (approx. 10 pages)						nation of one candidate each or					
11-SF-6A-072-m01	Module	Type 6	A Specia	Traini	Training Astronomy								
	ECTS 6 Duration				1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			V + R (no information on SWS (weekly contact hours) and course language available)									
	Method of assessment			a) written examination (approx. 90 minutes) or b) talk (approx. 30 minutes) or c) oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or d) project report (approx. 12 pages)									

11-SF-6D-072-m01	Module	Module Type 6D Special Training Didactics											
	ECTS	6	Duratio	1	1 semester	Method of grading r	numerical grade	Modul level	graduate				
	Courses			V + R	(no information on	SWS (weekly contact he	ours) and course language av	ailable)					
	Method				a) written examination (approx. 90 minutes) or b) talk (approx. 30 minutes) or c) oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or d) project report (approx. 12 pages)								
11-SF-6E-072-m01	Module	Type 6	E Special	Traini	raining Experimental Physics								
	ECTS	6	Duratio	1	1 semester	Method of grading r	numerical grade	Modul level	graduate				
	Courses		_				ours) and course language av						
	Method of assessment) written examination (approx. 90 minutes) or b) talk (approx. 30 minutes) or c) oral examination of one candidate each or ral examination in groups (approx. 30 minutes) or d) project report (approx. 12 pages)								
11-SF-6I-072-m01	Module	Type 6	I Special	Traini	ng Interdisciplinary	/ Research Fields							
	ECTS	6	Duratio	1	1 semester	Method of grading r	numerical grade	Modul level	graduate				
	Courses						ours) and course language av						
	Method	of asse	essment		vritten examination (approx. 90 minutes) or b) talk (approx. 30 minutes) or c) oral examination of one candidate each or examination in groups (approx. 30 minutes) or d) project report (approx. 12 pages)								
11-SF-6T-072-m01	Module	Type 6	T Special	Traini	ng Theoretical Phy	sics							
	ECTS	6	Duratio	า	1 semester	Method of grading r	numerical grade	Modul level	graduate				
	Courses			V + R	(no information on	SWS (weekly contact he	ours) and course language av	railable)					
	Method of assessment						b) talk (approx. 30 minutes) o) or d) project report (approx.		ation of one candidate each or				
11-SF-8A-072-m01	Module	Type 8	A Specia	l Traini	Training Astronomy								
	ECTS	8	Duratio	1	1 semester	Method of grading r	numerical grade	Modul level	graduate				
	Courses				V + R (no information on SWS (weekly contact hours) and course language available)								
	Method	of asse	essment				b) talk (approx. 30 minutes) o) or d) project report (approx.		ation of one candidate each or				
11-SF-8D-072-m01	Module	Type 8	D Specia	l Traini	ng Didactics								
	ECTS	8	Duratio	1	1 semester	Method of grading r	numerical grade	Modul level	graduate				
	Courses						ours) and course language av						
	Method	of asse	essment		a) written examination (approx. 90 minutes) or b) talk (approx. 30 minutes) or c) oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or d) project report (approx. 16 pages)								
11-SF-8E-072-m01	Module	Type 8	E Special	Traini	Training Experimental Physics								
	ECTS 8 Dura				1 semester	Method of grading r		Modul level	graduate				
	Courses			V + R	(no information on	SWS (weekly contact h	ours) and course language av	ailable)					
	Method of assessment			a) written examination (approx. 90 minutes) or b) talk (approx. 30 minutes) or c) oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or d) project report (approx. 16 pages)									

11-SF-8I-072-m01	Module Type 8I Special Training Interdisciplinary Research Fields												
	ECTS	8	Duration	ı	1 semester	Method of gradin	g numerical grade		Modul level	graduate			
	Course	S	•	V + R	no information on	SWS (weekly conta	ct hours) and course	e language ava	ailable)				
	Method	d of asso	essment		a) written examination (approx. 90 minutes) or b) talk (approx. 30 minutes) or c) oral examination of one candidate each or								
					oral examination in groups (approx. 30 minutes) or d) project report (approx. 16 pages)								
11-SF-8T-072-m01					Training Theoretical Physics								
		8	Duration		1 semester		g numerical grade		Modul level	graduate			
	Courses				/ + R (no information on SWS (weekly contact hours) and course language available) a) written examination (approx. 90 minutes) or b) talk (approx. 30 minutes) or c) oral examination of one candidate each or								
	Method	d of asso	essment				or b) talk (approx. 3 ites) or d) project re			nation of one candidate each or			
Compulsory Elective	es Rese	arch Mo	dules Ph	ysics (16 ECTS credits)								
11-FM-VK8A-072-	FOKUS	Resear	ch Modul	e Type	VK8A Astronomy								
mo1	ECTS	8	Duration		1 semester		g numerical grade		Modul level	graduate			
	Course	S		conta FOKU	OKUS Einführungsmodul Astronomie (FOKUS Introductory Module Astronomy): V (2 weekly contact hours) + Ü/P (1 weekly contact hour), details on availability to be announced OKUS Kompaktseminar Astronomie (FOKUS Block Taught Seminar Astronomy): S (2 weekly contact hours), German or Engsh, details on availability to be announced (block taught seminar (3 days), usually held during semester break)								
				 Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) Seminar: talk (approx. 30 to 45 minutes) Assessment components 1 and 2 will be offered in German or English. Students must register for assessment components 1 and 2 online (details to be announced). Details on when assessment components 1 and 2 will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2. 									
11-FM-VK8D-072-	FOKUS	Resear	ch Modul		VK8D Didactics								
mo1		8	Duration		1 semester	Method of gradin	g numerical grade		Modul level	graduate			
	Course	S		FOKUS Einführungsmodul Didaktik (FOKUS Introductory Module Didactics): V (2 weekly contact hours) + Ü/P (1 weekly contact hour), details on availability to be announced FOKUS Kompaktseminar Didaktik (FOKUS Block Taught Seminar Didactics): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break)									
	Method of assessment			This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) 2. Seminar: talk (approx. 30 to 45 minutes)									
				Stude Detail	ents must register f Is on when assess	or assessment components 1	ered in German or En conents 1 and 2 onli and 2 will be offered oth assessment com	ine (details to d to be annour	nced.				

11-FM-VK8E-072-	FOKUS Research Module Type VK8E Experimental Physics											
mo1	ECTS	8	Duration	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	S		hours) + Ü/P (1 weekly (FOKUS Kompaktsemina	FOKUS Einführungsmodul Experimentelle Physik (FOKUS Introductory Module Experimental Physics): V (2 weekly contact nours) + Ü/P (1 weekly contact hour), details on availability to be announced FOKUS Kompaktseminar Experimentelle Physik (FOKUS Block Taught Seminar Experimental Physics): S (2 weekly contact nours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break)							
	Method of assessment			 Topics covered in lec amination of one can 	This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) 2. Seminar: talk (approx. 30 to 45 minutes)							
				Assessment components 1 and 2 will be offered in German or English. Students must register for assessment components 1 and 2 online (details to be announced). Details on when assessment components 1 and 2 will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.								
11-FM-VK8I-072-	FOKUS Research Module Type VK8I Interdisciplinary Research Fields											
mo1	ECTS	8	Duration	1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses			FOKUS Einführungsmodul Interdisziplinäre Fachgebiete (FOKUS Introductory Module Interdisciplinary Research Fields): V (2 weekly contact hours) + Ü/P (1 weekly contact hour), details on availability to be announced FOKUS Kompaktseminar Interdisziplinäre Fachgebiete (FOKUS Block Taught Seminar Interdisciplinary Research Fields): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually h during semester break)								
	Method of assessment			This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) 2. Seminar: talk (approx. 30 to 45 minutes)								
				Assessment components 1 and 2 will be offered in German or English. Students must register for assessment components 1 and 2 online (details to be announced). Details on when assessment components 1 and 2 will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.								

11-FM-VK8T-072-	FOKUS	Resear	ch Module Typ	Module Type VK8T Theoretical Physics								
mo1	ECTS	8	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S	Ü/P FOK Gerr	FOKUS Einführungsmodul Theoretische Physik (FOKUS Introductory Module Theoretical Physics): V (2 weekly contact hours) + Ü/P (1 weekly contact hour), details on availability to be announced FOKUS Kompaktseminar Theoretische Physik (FOKUS Block Taught Seminar Theoretical Physics): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break)								
	Method	d of ass	1. To an 2. So Asso Stude Deta	 This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) 2. Seminar: talk (approx. 30 to 45 minutes) Assessment components 1 and 2 will be offered in German or English. Students must register for assessment components 1 and 2 online (details to be announced). Details on when assessment components 1 and 2 will be offered to be announced. 								
FAA \ /// A	501/116				lents must pass both	assessment component 1 and	assessment co	mponent 2.				
11-FM-VK9A-072-	FOKUS Research Module Type VK9A Astronomy											
mo1	ECTS	9	Duration	1 semester	Method of grading		Modul level	graduate				
	Course	S	cont FOK	tact hour), details on a US Kompaktseminar A	availability to be ann Astronomie (FOKUS B		y): S (2 weekly o	contact hours), German or Eng-				
	Method	d of ass	1. To		res and exercises: wi date each or oral exa			(approx. 30 minutes) or oral ex- oject report (approx. 8 pages)				
			Stud Deta	Assessment components 1 and 2 will be offered in German or English. Students must register for assessment components 1 and 2 online (details to be announced). Details on when assessment components 1 and 2 will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.								

11-FM-VK9D-072-	FOKUS	Resear	ch Module	Type VK9D Didactics								
mo1	ECTS	9	Duration	1 semester	Method of grading numerical grade		Modul level	graduate				
	Course	S		FOKUS Einführungsmodul Didaktik (FOKUS Introductory Module Didactics): V (3 weekly contact hours) + Ü/P (1 weekly contact hour), details on availability to be announced FOKUS Kompaktseminar Didaktik (FOKUS Block Taught Seminar Didactics): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break)								
	Method	d of ass		This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) 2. Seminar: talk (approx. 30 to 45 minutes)								
				Assessment components 1 and 2 will be offered in German or English. Students must register for assessment components 1 and 2 online (details to be announced). Details on when assessment components 1 and 2 will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.								
11-FM-VK9E-072-	FOKUS Research Module Type VK9E Experimental Physics											
mo1	ECTS	9	Duration	1 semester	Method of grading numerical grade		Modul level	graduate				
	Course	S		hours) + Ü/P (1 weekly FOKUS Kompaktsemir	odul Experimentelle Physik (FOKUS Introdu y contact hour), details on availability to be nar Experimentelle Physik (FOKUS Block Ta glish, details on availability to be announce	e announced lught Seminar E	Experimental F	Physics): S (2 weekly contact				
	Method of assessment			1. Topics covered in le	ollowing assessment components ectures and exercises: written examination andidate each or oral examination in group ox. 30 to 45 minutes)							
				Assessment components 1 and 2 will be offered in German or English. Students must register for assessment components 1 and 2 online (details to be announced). Details on when assessment components 1 and 2 will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.								

11-FM-VK9I-072-	FOKUS	Resear	ch Modul	e Type VK9I Interdise	iplinary Research Fields							
mo1	ECTS	9	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		FOKUS Einführungsmodul Interdisziplinäre Fachgebiete (FOKUS Introductory Module Interdisciplinary Research Fields): V (3 weekly contact hours) + Ü/P (1 weekly contact hour), details on availability to be announced FOKUS Kompaktseminar Interdisziplinäre Fachgebiete (FOKUS Block Taught Seminar Interdisciplinary Research Fields): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break)								
	Method of assessment			 Topics covered in amination of one 		ritten examination (app		((approx. 30 minutes) or oral ex- roject report (approx. 8 pages)				
				Assessment components 1 and 2 will be offered in German or English. Students must register for assessment components 1 and 2 online (details to be announced). Details on when assessment components 1 and 2 will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.								
11-FM-VK9T-072-	FOKUS Research Module Type VK9T Theoretical Physics											
mo1	ECTS	9	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		FOKUS Einführungsmodul Theoretische Physik (FOKUS Introductory Module Theoretical Physics): V (3 weekly contact hours) Ü/P (1 weekly contact hour), details on availability to be announced FOKUS Kompaktseminar Theoretische Physik (FOKUS Block Taught Seminar Theoretical Physics): S (2 weekly contact hours) German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break)								
	Method of assessment			 Topics covered in amination of one 		ritten examination (app		((approx. 30 minutes) or oral exoject report (approx. 8 pages)				
				Assessment components 1 and 2 will be offered in German or English. Students must register for assessment components 1 and 2 online (details to be announced). Details on when assessment components 1 and 2 will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.								

11-FM-VK10A-072-	FOKUS	FOKUS Research Module Type VK10A Astronomy										
mo1	ECTS	10	Duration	1	1 semester	Method of grading numer	ical grade	Modul level	graduate			
	Course	S		FOKUS Einführungsmodul Astronomie (FOKUS Introductory Module Astronomy): V (3 weekly contact hours) + Ü/P (2 weekly contact hours), German or English, details on availability to be announced FOKUS Kompaktseminar Astronomie (FOKUS Block Taught Seminar Astronomy): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break)								
	Method	d of ass		 Top ami Sen Asses Stude 	ics covered in lec nation of one car ninar: talk (appro sment componen nts must register	llowing assessment componer tures and exercises: written exididate each or oral examinations. 30 to 45 minutes) Its 1 and 2 will be offered in Gefor assessment components 1 and 2 will sment components 1 and 2 will states and 2 will sment components 1 and 2 will states and 2 will s	kamination (approx. 90 on in groups (approx. 30 erman or English. and 2 online (details to	o minutes) or pro				
						udents must pass both assess			mponent 2.			
11-FM-VK10D-072-	FOKUS Research Module Type VK10D Didactics											
mo1	ECTS	10	Duration	1	1 semester	Method of grading numer	rical grade	Modul level	graduate			
	Courses			hours) FOKUS	FOKUS Einführungsmodul Didaktik (FOKUS Introductory Module Didactics): V (3 weekly contact hours) + Ü/P (2 weekly conta hours), details on availability to be announced FOKUS Kompaktseminar Didaktik (FOKUS Block Taught Seminar Didactics): S (2 weekly contact hours), German or English, datals on availability to be announced (block taught seminar (3 days), usually held during semester break)							
	Method of assessment			1. Top ami	ics covered in lec nation of one car	llowing assessment componer tures and exercises: written ex adidate each or oral examinations. 30 to 45 minutes)	camination (approx. 90		(approx. 30 minutes) or oral ex- oject report (approx. 8 pages)			
				Assessment components 1 and 2 will be offered in German or English. Students must register for assessment components 1 and 2 online (details to be announced). Details on when assessment components 1 and 2 will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.								

11-FM-VK10E-072-	FOKUS Research Module Type VK10E Experimental Physics											
mo1	ECTS	10	Duration	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	S		FOKUS Einführungsmodul Experimentelle Physik (FOKUS Introductory Module Experimental Physics): V (3 weekly contact hours) + Ü/P (2 weekly contact hours), details on availability to be announced FOKUS Kompaktseminar Experimentelle Physik (FOKUS Block Taught Seminar Experimental Physics): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break)								
	Method of assessment			1. Topics covered in lect	lowing assessment components tures and exercises: written examination (app didate each or oral examination in groups (ap k. 30 to 45 minutes)	rox. 90 minutes) or talk prox. 30 minutes) or pro	(approx. 30 minutes) or oral ex- oject report (approx. 8 pages)					
				Assessment components 1 and 2 will be offered in German or English. Students must register for assessment components 1 and 2 online (details to be announced). Details on when assessment components 1 and 2 will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.								
11-FM-VK10I-072-	FOKUS Research Module Type VK10I Interdisciplinary Research Fields											
mo1	ECTS	10	Duration	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	S		FOKUS Einführungsmodul Interdisziplinäre Fachgebiete (FOKUS Introductory Module Interdisciplinary Research Fields): V (3 weekly contact hours) + Ü/P (2 weekly contact hours), details on availability to be announced FOKUS Kompaktseminar Interdisziplinäre Fachgebiete (FOKUS Block Taught Seminar Interdisciplinary Research Fields): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually hel during semester break)								
	Method	d of ass	essment	1. Topics covered in lect	lowing assessment components tures and exercises: written examination (appi didate each or oral examination in groups (ap k. 30 to 45 minutes)							
				Students must register Details on when assess	ts 1 and 2 will be offered in German or English. for assessment components 1 and 2 online (de ment components 1 and 2 will be offered to be udents must pass both assessment componer	etails to be announced) e announced.						

11-FM-VK10T-072-	FOKUS Research Module Type VK10T Theoretical Physics											
mo1	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S	Ü F0 G	FOKUS Einführungsmodul Theoretische Physik (FOKUS Introductory Module Theoretical Physics): V (3 weekly contact hours) + Ü/P (2 weekly contact hours), details on availability to be announced FOKUS Kompaktseminar Theoretische Physik (FOKUS Block Taught Seminar Theoretical Physics): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break)								
	Method	d of ass	1. 2. A S: D	This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) 2. Seminar: talk (approx. 30 to 45 minutes) Assessment components 1 and 2 will be offered in German or English. Students must register for assessment components 1 and 2 online (details to be announced). Details on when assessment components 1 and 2 will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.								
11-FM-VK12A-072-	FOKUS	Resear		e Type VK12A Astronomy								
mo1	ECTS	12	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S	CO FO	ontact hours), details or OKUS Kompaktseminar <i>i</i>	availability to be an Astronomie (FOKUS E		y): S (2 weekly o	contact hours), German or Eng-				
	Method	d of ass	1.	This module has the following assessment components Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) Seminar: talk (approx. 30 to 45 minutes)								
			S	tudents must register fo etails on when assessm	r assessment compo ent components 1 ar	ed in German or English. nents 1 and 2 online (details to nd 2 will be offered to be annou n assessment component 1 and	nced.					

11-FM-VK12D-072-	FOKUS	FOKUS Research Module Type VK12D Didactics										
mo1	ECTS	12	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		FOKUS Einführungsmodul Didaktik (FOKUS Introductory Module Didactics): V (4 weekly contact hours) + Ü/P (2 weekly contact hours), details on availability to be announced FOKUS Kompaktseminar Didaktik (FOKUS Block Taught Seminar Didactics): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break)								
	Method of assessment			This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) 2. Seminar: talk (approx. 30 to 45 minutes)								
				Assessment components 1 and 2 will be offered in German or English. Students must register for assessment components 1 and 2 online (details to be announced). Details on when assessment components 1 and 2 will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.								
11-FM-VK12E-072-	FOKUS Research Module Type VK12E Experimental Physics											
mo1	ECTS	12	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		FOKUS Einführungsmodul Experimentelle Physik (FOKUS Introductory Module Experimental Physics): V (4 weekly contact hours) + Ü/P (2 weekly contact hours), details on availability to be announced FOKUS Kompaktseminar Experimentelle Physik (FOKUS Block Taught Seminar Experimental Physics): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break)								
	Method	d of asso		1. Topi amii	This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or o amination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pag 2. Seminar: talk (approx. 30 to 45 minutes)							
				Assessment components 1 and 2 will be offered in German or English. Students must register for assessment components 1 and 2 online (details to be announced). Details on when assessment components 1 and 2 will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.								

11-FM-VK12I-072-	FOKUS Research Module Type VK12I Interdisciplinary Research Fields											
mo1	ECTS	12	Duration	1	1 semester	Method	of grading nu	merical grade		Modul level	graduate	
	Course	S		FOKUS Einführungsmodul Interdisziplinäre Fachgebiete (FOKUS Introductory Module Interdisciplinary Research Fields): V (4 weekly contact hours) + Ü/P (2 weekly contact hours), details on availability to be announced FOKUS Kompaktseminar Interdisziplinäre Fachgebiete (FOKUS Block Taught Seminar Interdisciplinary Research Fields): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break)								
	Method of assessment			1. Topi	ics covered in lec	tures and ex Ididate each	ercises: writte or oral exami	n examination	(approx. 90 r s (approx. 30	minutes) or talk minutes) or pr	(approx. 30 minutes) or oral exoject report (approx. 8 pages)	
				Assessment components 1 and 2 will be offered in German or English. Students must register for assessment components 1 and 2 online (details to be announced). Details on when assessment components 1 and 2 will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.								
11-FM-VK12T-072-												
mo1	ECTS	12	Duration	1	1 semester	Method	of grading nu	merical grade		Modul level	graduate	
	Course	S		Ü/P (2 FOKUS	weekly contact h Kompaktsemina an or English, det	nours), detai Ir Theoretisc	s on availabil he Physik (FOI	ity to be annou KUS Block Taug	nced tht Seminar T	heoretical Phys	ics): V (4 weekly contact hours) + ics): S (2 weekly contact hours), sually held during semester	
	Method of assessment			1. Topi	ics covered in lec	tures and ex Ididate each	ercises: writte or oral exami	n examination			(approx. 30 minutes) or oral exoject report (approx. 8 pages)	
				Assessment components 1 and 2 will be offered in German or English. Students must register for assessment components 1 and 2 online (details to be announced). Details on when assessment components 1 and 2 will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.								

11-FM-VM-	FOKUS	Resear	ch Module	e Type VKM12A Astrono	omy					
K12A-072-m01	ECTS	12	Duration	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		FOKUS Einführungsmodul Astronomie (FOKUS Introductory Module Astronomy): V (2 weekly contact hours) + Ü/P (1 weekly contact hour), details on availability to be announced FOKUS Kompaktseminar Astronomie (FOKUS Block Taught Seminar Astronomy): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break) FOKUS Miniforschungsprojekt Astronomie (FOKUS Mini Research Project Astronomy): P (2 weekly contact hours), German or English, details on availability to be announced (approx. 3 weeks, part time)						
	Method of assessment			This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) 2. Seminar: talk (approx. 30 to 45 minutes) 3. Research project: project report (approx. 8 pages)						
				Assessment components 1 through 3 will be offered in German or English. Students must register for assessment components 1 through 3 online (details to be announced). Details on when assessment components 1 through 3 will be offered to be announced. To pass this module, students must pass each of the assessment components 1 through 3.						
11-FM-VM-	FOKUS Research Module Type VMK12D Didactics									
K12D-072-m01	ECTS	12	Duration		Method of grading numerical grade	Modul level	graduate			
	Course	S		hour), details on avails FOKUS Kompaktsemin tails on availability to FOKUS Miniforschungs	odul Didaktik (FOKUS Introductory Module Didadability to be announced ar Didaktik (FOKUS Block Taught Seminar Didad be announced (block taught seminar (3 days), u sprojekt Didaktik (FOKUS Mini Research Project bility to be announced (approx. 3 weeks, part tir	ctics): S (2 weekly cont usually held during sen Didactics): P (2 weekly	act hours), German or English, de- nester break)			
	Method of assessment			 Topics covered in le amination of one ca Seminar: talk (appro 	ollowing assessment components ctures and exercises: written examination (app ndidate each or oral examination in groups (ap ox. 30 to 45 minutes) roject report (approx. 8 pages)					
				Assessment components 1 through 3 will be offered in German or English. Students must register for assessment components 1 through 3 online (details to be announced). Details on when assessment components 1 through 3 will be offered to be announced. To pass this module, students must pass each of the assessment components 1 through 3.						

11-FM-VM-	FOKUS	Resear	ch Module	Type VMK12E Experi	mental Physics	,					
K12E-072-m01	ECTS	12	Duration	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S	h F h s	FOKUS Einführungsmodul Experimentelle Physik (FOKUS Introductory Module Experimental Physics): V (2 weekly contact hours) + Ü/P (1 weekly contact hour), details on availability to be announced FOKUS Kompaktseminar Experimentelle Physik (FOKUS Block Taught Seminar Experimental Physics): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break) FOKUS Miniforschungsprojekt Experimentelle Physik (FOKUS Mini Research Project Experimental Physics): P (2 weekly contact hours), German or English, details on availability to be announced (approx. 3 weeks, part time)							
	Method	d of ass	1 2 3 A S C	 This module has the following assessment components Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) Seminar: talk (approx. 30 to 45 minutes) Research project: project report (approx. 8 pages) Assessment components 1 through 3 will be offered in German or English. Students must register for assessment components 1 through 3 online (details to be announced). Details on when assessment components 1 through 3 will be offered to be announced. To pass this module, students must pass each of the assessment components 1 through 3. 							
11-FM-VM-	FOKUS Research Module Type VMK12I Interdisciplinary Research Fields										
K12l-072-m01	ECTS	12	Duration	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S	w F w d	veekly contact hours) FOKUS Kompaktsemii veekly contact hours) during semester brea FOKUS Miniforschung	nodul Interdisziplinäre Fachgebiete (FOKUS Ir s) + Ü/P (1 weekly contact hour), details on av inar Interdisziplinäre Fachgebiete (FOKUS Blo s), German or English, details on availability t ak) gsprojekt Interdisziplinäre Fachgebiete (FOKI urs), German or English, details on availabili	vailability to be announced ock Taught Seminar Interdi to be announced (block tau US Mini Research Project In	sciplinary Research Fields): S (2 aght seminar (3 days), usually held aterdisciplinary Research Fields): P				
	Method	d of ass	1 2 3 A S C	This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) 2. Seminar: talk (approx. 30 to 45 minutes) 3. Research project: project report (approx. 8 pages) Assessment components 1 through 3 will be offered in German or English. Students must register for assessment components 1 through 3 online (details to be announced). Details on when assessment components 1 through 3 will be offered to be announced. To pass this module, students must pass each of the assessment components 1 through 3.							

11-FM-VM-	FOKUS	Resear	ch Module T	ype VKM12T Theoretical	l Physics					
K12T-072-m01	ECTS	12	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S	Ü/ FC Ge br FC	FOKUS Einführungsmodul Theoretische Physik (FOKUS Introductory Module Theoretical Physics): V (2 weekly contact hours) + Ü/P (1 weekly contact hour), details on availability to be announced FOKUS Kompaktseminar Theoretische Physik (FOKUS Block Taught Seminar Theoretical Physics): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break) FOKUS Miniforschungsprojekt Theoretische Physik (FOKUS Mini Research Project Theoretical Physics): P (2 weekly contact hours), German or English, details on availability to be announced (approx. 3 weeks, part time)						
	Method	i of asso	1. 2. 3. As St De	amination of one candid. Seminar: talk (approx. 3). Research project: projects ssessment components tudents must register for etails on when assessments.	res and exercises: wr date each or oral exa 30 to 45 minutes) ct report (approx. 8 p 1 through 3 will be of r assessment compo ent components 1 th	ritten examination (approx. 90 imination in groups (approx. 3 pages) ffered in German or English. nents 1 through 3 online (deta rough 3 will be offered to be a	o minutes) or pro ils to be announ nnounced.	(approx. 30 minutes) or oral exoject report (approx. 8 pages)		
11-FM-VM-	To pass this module, students must pass each of the assessment components 1 through 3. FOKUS Research Module Type VKM13A Astronomy									
K13A-072-m01		13	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S	co FC lis FC	ontact hour), details on a OKUS Kompaktseminar A sh, details on availability OKUS Miniforschungspro	availability to be ann Astronomie (FOKUS B y to be announced (b Jjekt Astronomie (FO	ounced Flock Taught Seminar Astronor Flock taught seminar (3 days),	ny): S (2 weekly o usually held dur ronomy): P (2 we	contact hours) + Ü/P (1 weekly contact hours), German or Eng- ring semester break) eekly contact hours), German or		
				Topics covered in lectur	res and exercises: wr date each or oral exa 30 to 45 minutes)	ritten examination (approx. 90 Imination in groups (approx. 3		((approx. 30 minutes) or oral exoject report (approx. 8 pages)		
			St De	tudents must register for etails on when assessmo	r assessment compo ent components 1 th	ffered in German or English. nents 1 through 3 online (deta rough 3 will be offered to be a n of the assessment componer	nnounced.	ced).		

11-FM-VM-	FOKUS Research Module Type VMK13D Didactics											
K13D-072-m01	ECTS	13	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		FOKUS Einführungsmodul Didaktik (FOKUS Introductory Module Didactics): V (3 weekly contact hours) + Ü/P (1 weekly contact hour), details on availability to be announced FOKUS Kompaktseminar Didaktik (FOKUS Block Taught Seminar Didactics): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break) FOKUS Miniforschungsprojekt Didaktik (FOKUS Mini Research Project Didactics): P (2 weekly contact hours), German or English, details on availability to be announced (approx. 3 weeks, part time)								
					res and exercises: wr idate each or oral exa 30 to 45 minutes)	ritten examination (approx. gamination in groups (approx		k (approx. 30 minutes) or oral ex- roject report (approx. 8 pages)				
				Assessment components 1 through 3 will be offered in German or English. Students must register for assessment components 1 through 3 online (details to be announced). Details on when assessment components 1 through 3 will be offered to be announced. To pass this module, students must pass each of the assessment components 1 through 3.								
11-FM-VM-	FOKUS Research Module Type VMK13E Experimental Physics											
K13E-072-m01	ECTS	13	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		hours) + Ü/P (1 weekly co FOKUS Kompaktseminar E hours), German or English ster break) FOKUS Miniforschungspro	ntact hour), details o Experimentelle Physil n, details on availabil ojekt Experimentelle	n availability to be announck (FOKUS Block Taught Sem lity to be announced (block	ced inar Experimental I taught seminar (3 o ch Project Experime	Physics): V (3 weekly contact Physics): S (2 weekly contact days), usually held during seme- ental Physics): P (2 weekly contact ne)				
					res and exercises: wr date each or oral exa 30 to 45 minutes)	ritten examination (approx. mination in groups (approx		k (approx. 30 minutes) or oral ex- roject report (approx. 8 pages)				
				Students must register for Details on when assessm	r assessment compo ent components 1 thi	ffered in German or English. nents 1 through 3 online (de rough 3 will be offered to be of the assessment compor	etails to be announ e announced.	iced).				

11-FM-VM-	FOKUS	Resear	ch Module	Type VMK13I Interdis	ciplinary Research Field	is	_				
K13l-072-m01	ECTS	13	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		FOKUS Einführungsmodul Interdisziplinäre Fachgebiete (FOKUS Introductory Module Interdisciplinary Research Fields): V (3 weekly contact hours) + Ü/P (1 weekly contact hour), details on availability to be announced FOKUS Kompaktseminar Interdisziplinäre Fachgebiete (FOKUS Block Taught Seminar Interdisciplinary Research Fields): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break) FOKUS Miniforschungsprojekt Interdisziplinäre Fachgebiete (FOKUS Mini Research Project Interdisciplinary Research Fields): P (2 weekly contact hours), German or English, details on availability to be announced (approx. 3 weeks, part time)							
	Method	d of ass		This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) 2. Seminar: talk (approx. 30 to 45 minutes) 3. Research project: project report (approx. 8 pages)							
		,		Assessment components 1 through 3 will be offered in German or English. Students must register for assessment components 1 through 3 online (details to be announced). Details on when assessment components 1 through 3 will be offered to be announced. To pass this module, students must pass each of the assessment components 1 through 3.							
11-FM-VM-	FOKUS Research Module Type VKM13T Theoretical Physics										
K13T-072-m01	ECTS	13	Duration		Method of grading		Modul level	graduate			
	Course	es.		Ü/P (1 weekly contact FOKUS Kompaktsemin German or English, de break) FOKUS Miniforschungs	hour), details on availa ar Theoretische Physik tails on availability to b sprojekt Theoretische P	bility to be announced (FOKUS Block Taught Se e announced (block tau	eminar Theoretical Phys ght seminar (3 days), u arch Project Theoretical	ics): V (3 weekly contact hours) + ics): S (2 weekly contact hours), sually held during semester I Physics): P (2 weekly contact ne)			
	Method	d of ass		This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) 2. Seminar: talk (approx. 30 to 45 minutes) 3. Research project: project report (approx. 8 pages) Assessment components 1 through 3 will be offered in German or English. Students must register for assessment components 1 through 3 online (details to be announced). Details on when assessment components 1 through 3 will be offered to be announced. To pass this module, students must pass each of the assessment components 1 through 3.							

11-FM-VM-	FOKUS	Resear	ch Module	Type VKM14A Astronomy	/		'-			
K14A-072-m01	ECTS	14	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		FOKUS Einführungsmodul Astronomie (FOKUS Introductory Module Astronomy): V (3 weekly contact hours) + Ü/P (2 weekly contact hours), details on availability to be announced FOKUS Kompaktseminar Astronomie (FOKUS Block Taught Seminar Astronomy): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break) FOKUS Miniforschungsprojekt Astronomie (FOKUS Mini Research Project Astronomy): P (2 weekly contact hours), German or English, details on availability to be announced (approx. 3 weeks, part time)						
	Method	d of ass		 This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) 2. Seminar: talk (approx. 30 to 45 minutes) 3. Research project: project report (approx. 8 pages) Assessment components 1 through 3 will be offered in German or English. Students must register for assessment components 1 through 3 online (details to be announced). Details on when assessment components 1 through 3 will be offered to be announced. To pass this module, students must pass each of the assessment components 1 through 3. 						
				To pass this module, stud	lents must pass each	of the assessment compone	nts 1 through 3.			
11-FM-VM- K14D-072-m01	FOKUS Research Module Type VMK14D Didactics									
K14D-0/2-11101	ECTS	14	Duration		Method of grading	•	Modul level	graduate		
	Course	·S		hours), details on availab FOKUS Kompaktseminar tails on availability to be FOKUS Miniforschungspr	illity to be announced Didaktik (FOKUS Bloc announced (block ta ojekt Didaktik (FOKUS	l k Taught Seminar Didactics): ught seminar (3 days), usually	S (2 weekly cont held during sen	act hours) + Ü/P (2 weekly contact act hours), German or English, denester break) v contact hours), German or Eng-		
	Method	d of ass		This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) 2. Seminar: talk (approx. 30 to 45 minutes) 3. Research project: project report (approx. 8 pages)						
				Assessment components 1 through 3 will be offered in German or English. Students must register for assessment components 1 through 3 online (details to be announced). Details on when assessment components 1 through 3 will be offered to be announced. To pass this module, students must pass each of the assessment components 1 through 3.						

11-FM-VM-	FOKUS	Resear	ch Module 1	Type VMK14E Experime	ental Physics						
K14E-072-m01	ECTS	14	Duration	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S	h F(h Si	FOKUS Einführungsmodul Experimentelle Physik (FOKUS Introductory Module Experimental Physics): V (3 weekly contact hours) + Ü/P (2 weekly contact hours), details on availability to be announced FOKUS Kompaktseminar Experimentelle Physik (FOKUS Block Taught Seminar Experimental Physics): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break) FOKUS Miniforschungsprojekt Experimentelle Physik (FOKUS Mini Research Project Experimental Physics): P (2 weekly contact hours), German or English, details on availability to be announced (approx. 3 weeks, part time)							
	Method	d of ass	1. 2 3 A S	This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) 2. Seminar: talk (approx. 30 to 45 minutes) 3. Research project: project report (approx. 8 pages) Assessment components 1 through 3 will be offered in German or English. Students must register for assessment components 1 through 3 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) 2. Seminar: talk (approx. 30 minutes) or project report (approx. 8 pages)							
				Details on when assessment components 1 through 3 will be offered to be announced. To pass this module, students must pass each of the assessment components 1 through 3.							
11-FM-VM-	FOKUS Research Module Type VMK14I Interdisciplinary Research Fields										
K14I-072-m01	ECTS	14	Duration	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course		W Fr W d Fr (2	veekly contact hours) + OKUS Kompaktseminar veekly contact hours), G luring semester break) OKUS Miniforschungsp 2 weekly contact hours)	lul Interdisziplinäre Fachgebiete (FOKUS Interdisziplinäre Fachgebiete (FOKUS Interdisziplinäre Fachgebiete (FOKUS Bloogerman or English, details on availability to projekt Interdisziplinäre Fachgebiete (FOKUS), German or English, details on availability	vailability to be annound ck Taught Seminar Interd o be announced (block to IS Mini Research Project	lisciplinary Research Fields): S (2 lught seminar (3 days), usually held Interdisciplinary Research Fields): P				
	1. 2 3. A S: D			This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) 2. Seminar: talk (approx. 30 to 45 minutes) 3. Research project: project report (approx. 8 pages) Assessment components 1 through 3 will be offered in German or English. Students must register for assessment components 1 through 3 online (details to be announced). Details on when assessment components 1 through 3 will be offered to be announced. To pass this module, students must pass each of the assessment components 1 through 3.							

11-FM-VM-	FOKUS Research Module Type VKM14T Theoretical Physics											
K14T-072-m01	ECTS	14	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S	Ü F G b	FOKUS Einführungsmodul Theoretische Physik (FOKUS Introductory Module Theoretical Physics): V (3 weekly contact hours) + Ü/P (2 weekly contact hours), details on availability to be announced FOKUS Kompaktseminar Theoretische Physik (FOKUS Block Taught Seminar Theoretical Physics): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break) FOKUS Miniforschungsprojekt Theoretische Physik (FOKUS Mini Research Project Theoretical Physics): P (2 weekly contact hours), German or English, details on availability to be announced (approx. 3 weeks, part time)								
	Method	d of ass	1. 22 3 A S	 This module has the following assessment components Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) Seminar: talk (approx. 30 to 45 minutes) Research project: project report (approx. 8 pages) Assessment components 1 through 3 will be offered in German or English. Students must register for assessment components 1 through 3 online (details to be announced). Details on when assessment components 1 through 3 will be offered to be announced. 								
	FOKUS	. D		To pass this module, students must pass each of the assessment components 1 through 3.								
11-FM-VM- K16A-072-m01	FOKUS Research Module Type VKM16A Astronomy ECTS 16 Duration 1 semester Method of grading numerical grade Modul level graduate											
	Course		Fi C Fi li	FOKUS Einführungsmo contact hours), details FOKUS Kompaktsemin ish, details on availal FOKUS Miniforschungs	odul Astronomie (FOKUS s on availability to be an nar Astronomie (FOKUS E bility to be announced (b sprojekt Astronomie (FO	Introductory Module Asi nounced Block Taught Seminar Asi block taught seminar (3 c	tronomy): V (4 weekly of tronomy): S (2 weekly of days), usually held dur ect Astronomy): P (2 we	contact hours) + Ü/P (2 weekly				
	Method of assessment			. Topics covered in le amination of one ca 2. Seminar: talk (appro	andidate each or oral exa	ritten examination (appramination in groups (app		(approx. 30 minutes) or oral exoject report (approx. 8 pages)				
			S	Students must registe Details on when asses	er for assessment compo ssment components 1 th	ffered in German or Engl nents 1 through 3 online rough 3 will be offered to 1 of the assessment com	e (details to be announ o be announced.	ced).				

11-FM-VM-	FOKUS	Resear	rch Module	Type VMK16D Didaction	cs						
K16D-072-m01	ECTS	16	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		hours), details on avai FOKUS Kompaktsemin tails on availability to I FOKUS Miniforschungs	lability to be announced ar Didaktik (FOKUS Bloc be announced (block tak sprojekt Didaktik (FOKUS	d k Taught Seminar Didactics ught seminar (3 days), usua	s): S (2 weekly conta ally held during sem	act hours) + Ü/P (2 weekly contact act hours), German or English, denester break) contact hours), German or Eng-			
	Method of assessment			 Topics covered in lea amination of one car Seminar: talk (appro 	ndidate each or oral exa	ritten examination (approx. amination in groups (approx		(approx. 30 minutes) or oral exoject report (approx. 8 pages)			
			,	Assessment components 1 through 3 will be offered in German or English. Students must register for assessment components 1 through 3 online (details to be announced). Details on when assessment components 1 through 3 will be offered to be announced. To pass this module, students must pass each of the assessment components 1 through 3.							
11-FM-VM-	FOKUS Research Module Type VMK16E Experimental Physics ECTS 16 Duration 1 semester Method of grading numerical grade Modul level graduate										
K16E-072-m01	ECTS	16	Duration				Modul level	graduate			
	Course	S		hours) + Ü/P (2 weekly FOKUS Kompaktsemin hours), German or Eng ster break) FOKUS Miniforschungs	contact hours), details ar Experimentelle Physil lish, details on availabil sprojekt Experimentelle	on availability to be annou k (FOKUS Block Taught Sem lity to be announced (block	nced ninar Experimental F taught seminar (3 o ch Project Experime	Physics): V (4 weekly contact Physics): S (2 weekly contact days), usually held during seme- ental Physics): P (2 weekly contact ne)			
	Method of assessment			 Topics covered in lea amination of one car Seminar: talk (appro 	ndidate each or oral exa	ritten examination (approx. amination in groups (approx		((approx. 30 minutes) or oral exoject report (approx. 8 pages)			
				Students must register Details on when asses	r for assessment compo sment components 1 th	ffered in German or English nents 1 through 3 online (d rough 3 will be offered to b n of the assessment compo	etails to be announ e announced.	ced).			

11-FM-VM-	FOKUS	Resear	rch Module	e Type	VMK16I Interdise	ciplinary Research Fiel	ds				
K16l-072-m01	ECTS	16	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S .		FOKUS Einführungsmodul Interdisziplinäre Fachgebiete (FOKUS Introductory Module Interdisciplinary Research Fields): V (4 weekly contact hours) + Ü/P (2 weekly contact hours), details on availability to be announced FOKUS Kompaktseminar Interdisziplinäre Fachgebiete (FOKUS Block Taught Seminar Interdisciplinary Research Fields): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break) FOKUS Miniforschungsprojekt Interdisziplinäre Fachgebiete (FOKUS Mini Research Project Interdisciplinary Research Fields): P (2 weekly contact hours), German or English, details on availability to be announced (approx. 3 weeks, part time)							
	Method	d of ass		This m	nodule has the fo	ollowing assessment co	mponents	1			
				 Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) Seminar: talk (approx. 30 to 45 minutes) Research project: project report (approx. 8 pages) 							
				Assessment components 1 through 3 will be offered in German or English. Students must register for assessment components 1 through 3 online (details to be announced). Details on when assessment components 1 through 3 will be offered to be announced. To pass this module, students must pass each of the assessment components 1 through 3.							
11-FM-VM-	FOKUS Research Module Type VKM16T Theoretical Physics										
K16T-072-m01	ECTS	16	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	·S		Ü/P (2 FOKUS Germa break) FOKUS	e weekly contact S Kompaktsemina an or English, det) S Miniforschungs	hours), details on avail ar Theoretische Physik tails on availability to b sprojekt Theoretische P	ability to be announced (FOKUS Block Taught Semin e announced (block taught s	ar Theoretical Phys seminar (3 days), u Project Theoretica	sics): V (4 weekly contact hours) + sics): S (2 weekly contact hours), usually held during semester I Physics): P (2 weekly contact ne)		
	Method of assessment			1. Topi ami 2. Sem 3. Reso	ics covered in led nation of one cal ninar: talk (appro earch project: pro	ctures and exercises: w ndidate each or oral ex ox. 30 to 45 minutes) oject report (approx. 8	ritten examination (approx. amination in groups (approx	. 30 minutes) or pr	k (approx. 30 minutes) or oral ex- roject report (approx. 8 pages)		
				Stude: Details	nts must register s on when asses	r for assessment compo sment components 1 th	onents 1 through 3 online (de nrough 3 will be offered to be h of the assessment compor	etails to be announ e announced.	iced).		

11-FM-TI-131-m01	FOKUS	Resear	ch Module	е Торо	logical Insulators	3					
	ECTS	10	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		Quantentransport in Halbleiter-Nanostrukturen (Quantum Transport in Semiconductor Nanostructures): V (3 weekly contact hours) + Ü/P (1 weekly contact hour), German or English, once a year (summer semester) Kompaktseminar Topologische Isolatoren (Block Taught Seminar Topological Insulators): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (1 to 3 days) held towards the end of semester break or at the beginning of the subsequent semester)							
	Method of assessment			 Top ami Sen Asses Stude 	ics covered in lectination of one car ninar: talk (appro sment componer nts must register	llowing assessment components ctures and exercises: written examination (approndidate each or oral examination in groups (approx. 30 to 45 minutes) ats 1 and 2 will be offered in German or English. for assessment components 1 and 2 online (det	rox. 30 minutes) or pro ails to be announced)	oject report (approx. 8 pages)			
				Assessment component 1 will be offered once a year in the summer semester; details on when assessment component 2 will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.							
11-FM-TPE-092-	FOKUS Research Module Experimental Particle Physics										
mo1	ECTS 8 Duratio			1	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		man c Komp	or English, once a aktseminar Exper), German or Engl	nphysik (Experimental Particle Physics): V (2 wee year (details to be announced) rimentelle Teilchenphysik (Block Taught Seminal ish, details on availability to be announced (block)	r Experimental Particle	e Physics): S (2 weekly contact			
	Method of assessment			1. Top	ics covered in lec ination of one car	llowing assessment components ctures and exercises: written examination (approndidate each or oral examination in groups (approx. 30 to 45 minutes)					
				Assessment components 1 and 2 will be offered in German or English. Students must register for assessment components 1 and 2 online (details to be announced). Assessment component 1 will be offered once a year (details to be announced); details on when assessment component 2 will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.							
	other prerequisites			11-KET	; recommended:	11-DTS, 11-TPS					

11-FM-HLF-092-	FOKUS	Researc	h Module	Semi	conductor Lasers					
mo1	ECTS	10	Duration)	1 semester	Method of grading nun	nerical grade	Modul level	graduate	
	Course	S		Halbleiterlaser - Grundlagen und aktuelle Forschung (Semiconductor Lasers - Principles and Current Research): V (3 weekly contact hours) + Ü/P (1 weekly contact hour), German or English, once a year (summer semester) Kompaktseminar Halbleiterlaser (Block Taught Seminar Semiconductor Lasers): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break)						
11 FM AHI 002				1. Top	ics covered in led nation of one car		examination (approx. 90 i		(approx. 30 minutes) or oral ex- oject report (approx. 8 pages)	
				Assessment components 1 and 2 will be offered in German or English. Students must register for assessment components 1 and 2 online (details to be announced). Assessment component 1 will be offered once a year in the summer semester; details on when assessment component 2 will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.						
11-FM-AHL-092-	FOKUS Research Module Applied Semiconductor Physics									
mo1	ECTS	10	Duration)	1 semester	Method of grading nun	nerical grade	Modul level	graduate	
	Courses			man o Komp	or English, once a aktseminar Ange), German or Engl	year (winter semester) wandte Halbleiterphysik (Blo	ock Taught Seminar Applie	ed Semiconduct	Ü/P (1 weekly contact hour), Geror Physics): S (2 weekly contact days), usually held during seme-	
	Method of assessment			1. Top	ics covered in led nation of one car		examination (approx. 90 i		(approx. 30 minutes) or oral ex- oject report (approx. 8 pages)	
				Stude Asses offere	nts must register sment componer d to be announce		s 1 and 2 online (details to ar in the winter semester; o	details on when	assessment component 2 will be	
	other p	rerequis	ites	Festkö	irperphysik 1 (So	lid State Physics 1)				

11-FM-TSL-092-	FOKUS	Resear	ch Modul	e Theory of Superconduct	ivity					
mo1	ECTS	10	Duration	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		Theorie der Supraleitung (Theory of Superconduction): V (2 weekly contact hours) + Ü/P (1 weekly contact hour), German or English, once a year (summer semester) Kompaktseminar Theorie der Supraleitung (Block Taught Seminar Theory of Superconduction): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break)						
	Method	d of ass	essment	 Topics covered in lectural amination of one cand Seminar: talk (approx. Assessment components Students must register for Assessment component abe offered to be announced. 	This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) 2. Seminar: talk (approx. 30 to 45 minutes) Assessment components 1 and 2 will be offered in German or English. Students must register for assessment components 1 and 2 online (details to be announced). Assessment component 1 will be offered once a year in the summer semester; details on when assessment component 2 will be offered to be announced.					
11-FM-TFK-092-	FOULE	Docoor	ah Madul	To pass this module, stude of the control of the co	dents must pass both assessment component 1 and	assessment co	omponent 2.			
mo1	ECTS	10	Duration		Method of grading numerical grade	Modul level	graduate			
	Course		Burution	Theoretische Festkörperphysik (Theoretical Solid State Physics): V (4 weekly contact hours) + Ü/P (2 weekly contact hours), German or English, once a year (winter semester) Kompaktseminar Theoretische Festkörperphysik (Block Taught Seminar Theoretical Solid State Physics): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break)						
				 Topics covered in lectural amination of one cand Seminar: talk (approx. Assessment components Students must register for Assessment components 	s 1 and 2 will be offered in German or English. or assessment components 1 and 2 online (details to 1 will be offered once a year in the winter semester;	o minutes) or pr	oject report (approx. 8 pages)			
				offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.						
	other p	rerequi	sites	Recommended: 11-KM, 11	ı-TQM					

11-FM-AST-092-	FOKUS	FOKUS Research Module Theoretical Astrophysics											
mo1	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	S	K	Theoretische Astrophysik (Theoretical Astrophysics): V (3 weekly contact hours) + Ü/P (1 weekly contact hour) Kompaktseminar Theoretische Astrophysik (Block Taught Seminar Theoretical Astrophysics): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break)									
	Method of assessment			This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) 2. Seminar: talk (approx. 30 to 45 minutes)									
			S	Assessment component 2 will be offered in German or English. Students must register for assessment components 1 and 2 online (details to be announced). Details on when assessment component 2 will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.									
	other p			Mechanics, electrodynamics, programming in C++; recommended: atomic, nuclear and particle physics, thermodynamics.									
· L	FOKUS Research Spintronic and Physics												
mo1	ECTS 10 Duration			1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses			ry and Theory of Quantun or (winter semester) Compaktseminar Spintror	n Transport): V (3 wee nik und Nanophysik (ekly contact hours) + Ü/P (1 we (Block Taught Seminar Spintror	ekly contact hounics and Nanoph	ohy in Semiconductor Technolour), German or English, once a yenysics): S (2 weekly contact days), usually held during seme-					
	Method of assessment				res and exercises: wr date each or oral exa			(approx. 30 minutes) or oral ex- oject report (approx. 8 pages)					
			S A o	Assessment components 1 and 2 will be offered in German or English. Students must register for assessment components 1 and 2 online (details to be announced). Assessment component 1 will be offered once a year in the winter semester; details on when assessment component 2 will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.									

11-FM-RQFT-092-	FOKUS Res	earch Modul	n Module Relativistic Quantum Field Theory									
mo1	ECTS 12	Duration	ı 1 semester	Method of gradin	g numerical grade	Modul level	graduate					
	Courses	·	Relativistische Quantenfeldtheorie (Relativistic Quantum Field Theory): V (4 weekly contact hours) + Ü/P (2 weekly contact hours), German or English, once a year (winter semester) Kompaktseminar Relativistische Quantenfeldtheorie (Block Taught Seminar Relativistic Quantum Field Theory): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (1 to 3 days) held towards the end of semester break or at the beginning of the subsequent semester)									
	Method of	assessment	This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) 2. Seminar: talk (approx. 30 to 45 minutes)									
			Assessment components 1 and 2 will be offered in German or English. Students must register for assessment components 1 and 2 online (details to be announced). Assessment component 1 will be offered once a year in the winter semester; details on when assessment compon offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.									
	other prere	rerequisites Lectures Theoretische Physik (Theoretical Physics); Quantenmechanik 2 (Quantum Mechanics 2) recommended.										
11-FM-RQFT-	FOKUS Res	earch Modul	e Relativistic Quantum	Field Theory with Mir	i Research Project	'						
MF-092-m01	ECTS 16	Duration	1 semester	Method of gradin	g numerical grade	Modul level	graduate					
	Courses		Relativistische Quantenfeldtheorie (Relativistic Quantum Field Theory): V (4 weekly contact hours) + Ü/P (2 weekly conhours), German or English, once a year (winter semester) Kompaktseminar Relativistische Quantenfeldtheorie (Block Taught Seminar Relativistic Quantum Field Theory): S (2 we contact hours), German or English, details on availability to be announced (block taught seminar (1 to 3 days) held tow the end of semester break or at the beginning of the subsequent semester) Miniforschungsprojekt Relativistische Quantenfeldtheorie (Mini Research Project Relativistic Quantum Field Theory): Pkly contact hours), German or English, details on availability to be announced (either block taught during semester breapprox. 3 weeks part time)									
	Method of	assessment		ctures and exercises: ndidate each or oral e ox. 30 to 45 minutes)	written examination (app examination in groups (ap		((approx. 30 minutes) or oral ex- roject report (approx. 8 pages)					
			Students must registe Assessment compone will be offered to be a	r for assessment com nt 1 will be offered on nnounced.	offered in German or Engonents 1 through 3 onlings on the winter selection of the assessment column.	ne (details to be announ mester; details on wher	nced). n assessment components 2 and 3					
	other prere	quisites	Lectures Theoretische	Physik (Theoretical Pl	nysics); Quantenmechani	ik 2 (Quantum Mechani	cs 2) recommended.					

11-FM-TEP-092-	FOKUS	Resear	ch Module	Theoretical Elementa	ary Particle Physics				
mo1	ECTS	12	Duration	1 semester	Method of grading numerical	grade	Modul level	graduate	
	Course	S		contact hours), Germ Kompaktseminar The weekly contact hours	tarteilchenphysik (Theoretical Eleme an or English, once a year (summer s oretische Elementarteilchenphysik (I), German or English, details on avail ester break or at the beginning of the	emester) Block Taught Semin lability to be annour	ar Theoretical E nced (block tau	lementary Particle Physics): S (2	
	Method	d of asse		 Topics covered in learning amination of one cannot be seen as a seen and a seen and a seen and a seen and a seen a		groups (approx. 30	minutes) or talk minutes) or pro	(approx. 30 minutes) or oral ex- oject report (approx. 8 pages)	
				Students must registed Details on when assed To pass this module,	ents 1 and 2 will be offered in Germa er for assessment components 1 and ssment component 2 will be offered students must pass both assessmer	2 online (details to to be announced.			
		rerequis		11-RQFT					
-	FOKUS Research Module Theoretical Elementary Particle Physics with Mini Research Project								
mo1	ECTS	16	Duration		Method of grading numerical	<u> </u>	Modul level	graduate	
	Course			Theoretische Elementarteilchenphysik (Theoretical Elementary Particle Physics): V (4 weekly contact hours) + Ü/P (2 weekly contact hours), German or English, once a year (summer semester) Kompaktseminar Theoretische Elementarteilchenphysik (Block Taught Seminar Theoretical Elementary Particle Physics): S weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually houring semester break) Miniforschungsprojekt Theoretische Elementarteilchenphysik (Mini Research Project Theoretical Elementary Particle Physic P (2 weekly contact hours), German or English, details on availability to be announced (either block taught during semeste break or approx. 3 weeks part time)					
	Method	d of asse		 Topics covered in learning amination of one cannot be sufficient to the amination of one cannot be sufficient to the sufficie	oroject report (approx. 8 pages) ents 1 through 3 will be offered in Ge er for assessment components 1 thro	groups (approx. 30 rman or English. ough 3 online (detail	minutes) or prosections or sections or sections or sections.	pject report (approx. 8 pages)	
				To pass this module,	ssment components 2 and 3 will be of students must pass each of the asse				
	other prerequisites			11-RQFT					

11-FM-LMB-092-	FOKUS Research Module Biophysics - Laboratory and Measurement Technology											
mo1	ECTS	10	Duration	1 semester	Method of grading num	nerical grade	Modul level	graduate				
	Course	S		Labor- und Messtechnik in der Biophysik (Laboratory and Measurement Technology in Biophysics): V (3 weekly contact hours) + Ü/P (1 weekly contact hour), German or English, once a year (summer semester) Kompaktseminar Biophysik - Labor- und Messtechnik (Block Taught Seminar Biophysics - Laboratory and Measurement Technology): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break)								
	Method of assessment			1. Topics covered in le	ndidate each or oral examina	examination (approx. 90		(approx. 30 minutes) or oral exoject report (approx. 8 pages)				
				Assessment components 1 and 2 will be offered in German or English. Students must register for assessment components 1 and 2 online (details to be announced). Assessment component 1 will be offered once a year in the summer semester; details on when assessment component 2 will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.								
11-FM-BMT-092-	FOKUS Research Module Biophysics - Biophysical Measurement Technology in Medical Science											
mo1	ECTS 10 Duratio			1 semester	Method of grading num	nerical grade	Modul level	graduate				
	Course	S		hours) + Ü/P (1 weekly Kompaktseminar Biop Measurement Technol	contact hour), German or En nysik - Biophysikalische Mes	glish, once a year (winter s sstechnik in der Medizin (E weekly contact hours), Ge	semester) Block Taught Se erman or English	ical Science): V (3 weekly contact minar Biophysics - Biophysical h, details on availability to be an-				
	Method of assessment			1. Topics covered in le	ndidate each or oral examina	examination (approx. 90		(approx. 30 minutes) or oral exoject report (approx. 8 pages)				
				Students must register Assessment componer offered to be announced.		s 1 and 2 online (details to ar in the winter semester;	details on when	assessment component 2 will be				

11-FM-NOP-092-	FOKUS Research Module Nano Optics											
mo1	ECTS	8	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	·S	(s	Nanoelektronik (Nanoelectronics): V (3 weekly contact hours) + Ü/P (1 weekly contact hour), German or English, once a year (summer semester) Kompaktseminar Nanoelektronik (Block Taught Seminar Nanoelectronics): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break)								
	Method of assessment			. Topics covered in lectu	ires and exercises: w idate each or oral exa			(approx. 30 minutes) or oral ex- oject report (approx. 8 pages)				
			S re th A b	Assessment components 1 and 2 will be offered in German or English. Students must register for assessment components 1 and 2 online (details to be announced). Students must meet certain prerequisites to qualify for admission to assessment component 1. The lecturer will inform them about the respective details at the beginning of the course. Assessment component 1 will be offered once a year in the summer semester; details on when assessment component 2 will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.								
11-FM-NDS-092-	FOKUS Research Module Low Dimensional Structures											
mo1	ECTS 8 Duratio			1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S	m K h	Niederdimensionale Strukturen (Low Dimensional Structures): V (2 weekly contact hours) + Ü/P (1 weekly contact hour), German or English, once a year (details to be announced) Kompaktseminar Niederdimensionale Strukturen (Block Taught Seminar Low Dimensional Structures): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break)								
	Method of assessment			. Topics covered in lectu	ires and exercises: w idate each or oral exa	mponents ritten examination (approx. 90 i amination in groups (approx. 30		(approx. 30 minutes) or oral ex- oject report (approx. 8 pages)				
			S A w	tudents must register for ssessment component vill be offered to be anno	or assessment compo 1 will be offered once ounced.	ed in German or English. nents 1 and 2 online (details to a year (details to be announce n assessment component 1 and	d); details on w	hen assessment component 2				

11-FM-QPM-092-	FOKUS	Resear	ch Module	Quan	tum Phenomena in	electronic correlated Materials				
mo1	ECTS	10	Duration		1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	S		Quantenphänomene in elektronisch korrelierten Materialien (Quantum Phenomena in Electronic Correlated Materials): V (3 weekly contact hours) + Ü/P (1 weekly contact hour), German or English, once a year (details to be announced) Kompaktseminar Quantenphänomene in elektronisch korrelierten Materialien (Block Taught Seminar Quantum Phenomena in Electronic Correlated Materials): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break)						
				1. Top ami	ics covered in lectu	wing assessment components res and exercises: written examination (approx. 9 idate each or oral examination in groups (approx. 30 to 45 minutes)				
				Assessment components 1 and 2 will be offered in German or English. Students must register for assessment components 1 and 2 online (details to be announced). Assessment component 1 will be offered once a year (details to be announced); details on when assessment component 2 will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.						
11-FM-QPM-	FOKUS Research Module Quantum Phenomena in electronic correlated Materials with Mini Research Project									
MF-092-m01	ECTS 14 Duration		Duration		1 semester	Method of grading numerical grade	Modul level	graduate		
	Course			weekl Komp Electro taugh Minifo mena ced (e	y contact hours) + L aktseminar Quante onic Correlated Mat t seminar (3 days), orschungsprojekt Qi in Electronic Correl either block taught o	lektronisch korrelierten Materialien (Quantum Phe J/P (1 weekly contact hour), German or English, or nphänomene in elektronisch korrelierten Material terials): S (2 weekly contact hours), German or Eng usually held during semester break) uantenphänomene in elektronisch korrelierten Ma ated Materials): P (2 weekly contact hours), Germa during semester break or approx. 3 weeks part tim	ice a year (details ien (Block Taught glish, details on a aterialien (Mini Re an or English, det	to be announced) Seminar Quantum Phenomena in vailability to be announced (block search Project Quantum Pheno-		
	Method of assessment T 1 2 3 A S A a			Top amiSen	ics covered in lectuination of one cand ninar: talk (approx.	wing assessment components res and exercises: written examination (approx. 9 idate each or oral examination in groups (approx. 30 to 45 minutes) ect report (approx. 8 pages)				
				Assessment components 1 through 3 will be offered in German or English. Students must register for assessment components 1 through 3 online (details to be announced). Assessment component 1 will be offered once a year (details to be announced); details on when assessment components 2 and 3 will be offered to be announced. To pass this module, students must pass each of the assessment components 1 through 3.						

11-FM-RMS-092-	FOKUS Research Module Dirac Fermions in Mesoscopic Systems											
mo1	ECTS	9	Duration	1 semes	ter	Method of grading	numerical grade	Modul level	graduate			
	Course	S		Relativistische Effekte in Mesoskopischen Systemen (Relativistic Effects in Mesoscopic Systems): V (3 weekly contact hours) + Ü/P (1 weekly contact hour), German or English Kompaktseminar Dirac Fermionen in Mesoskopischen Systemen (Block Taught Seminar Dirac Fermions in Mesoscopic Systems): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break)								
	Method of assessment			 Topics cove amination o Seminar: tal Assessment co	red in lect f one can k (approx omponent	didate each or oral ex a. 30 to 45 minutes) ats 1 and 2 will be offer	ritten examination (appro	ox. 30 minutes) or pr	(approx. 30 minutes) or oral exoject report (approx. 8 pages)			
				Details on when assessment component 2 will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.								
11-FM-NEL-092-	FOKUS Research Module Nanoelectronics											
mo1	ECTS 10 Duratio			1 semes	ter	Method of grading	numerical grade	Modul level	graduate			
	Course	S		semester) Kompaktsemii	iar Nano-	Optik und Spektrosko	pie (Block Taught Semina	r Nano-Optics and Sp	or English, once a year (summer bectroscopy): S (2 weekly contact days), usually held during seme-			
	Method of assessment			1. Topics cove amination o	ed in lect f one can	tures and exercises: w	ritten examination (appro		((approx. 30 minutes) or oral exoject report (approx. 8 pages)			
				Assessment components 1 and 2 will be offered in German or English. Students must register for assessment components 1 and 2 online (details to be announced). Assessment component 1 will be offered once a year in the summer semester; details on when assessment component 2 will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.								

11-FM-PKS-	FOKUS	Resea	rch Modul	e Com	plex Systems with	Mini Research Project				
MF-092-m01	ECTS	12	Duratio	n	1 semester	Method of grading numerical	al grade	Modul level	graduate	
	Course	S		or Éng Komp lish, o Minif	Physik komplexer Systeme (Physics of Complex Systems): V (2 weekly contact hours) + Ü/P (2 weekly contact hours), German or English, once a year (winter semester) Kompaktseminar Komplexe Systeme (Block Taught Seminar Complex Systems): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break) Miniforschungsprojekt Komplexe Systeme (Mini Research Project Complex Systems): P (2 weekly contact hours), German or English, details on availability to be announced (either block taught during semester break or approx. 3 weeks part time)					
	Method of assessment			This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) 2. Seminar: talk (approx. 30 to 45 minutes) 3. Research project: project report (approx. 8 pages)						
				Stude Asses will b	ents must register for ssment component be offered to be ann		rough 3 online (detai the winter semester;	details on when	ced). a assessment components 2 and 3	
11-FM-PKS-092-	FOKUS Research Module Complex Systems									
mo1	ECTS	10	Duratio	n	1 semester	Method of grading numerical	al grade	Modul level	graduate	
	Method of assessment			or English, of This rate of Thi	glish, once a year (voaktseminar Komplodetails on availabili module has the follopics covered in lectrination of one candinar: talk (approximates must register for the proximates of the proxim	winter semester) exe Systeme (Block Taught Semity to be announced (block taugouing assessment components ures and exercises: written exaididate each or oral examination. 30 to 45 minutes) s 1 and 2 will be offered in Germor assessment components 2 and 2 will be 2 will be 2 will be 2 will be 3	ninar Complex System tht seminar (3 days), to seminar (3 days), to semination (approx. 90 in groups (approx. 30 nan or English. and 2 online (details to seminar to s	ns): S (2 weekly ousually held dur minutes) or talk o minutes) or pro	ring semester break) ((approx. 30 minutes) or oral exoject report (approx. 8 pages)	
				Assessment component 1 will be offered in the winter semester (details to be announced); details on when assessment component 2 will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.						

11-FM-SPD-102-	FOKUS	Resear	ch Module	e Appli	Applied Semiconductor Physics and Devices					
mo1	ECTS	10	Duration	1	1 semester	Method of grading numerical grade	I	Modul level	graduate	
	Course	S		conta Komp (2 wee	ct hour), German d aktseminar Halble	auelemente (Applied Semiconductor Physics or English, once a year (winter semester) eiterphysik und Bauelemente (Block Taught S s), German or English, details on availability t reak)	Seminar Ap	plied Semicor	nductor Physics and Devices): S	
	Method of assessment			This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) 2. Seminar: talk (approx. 30 to 45 minutes) Assessment components 1 and 2 will be offered in German or English. Students must register for assessment components 1 and 2 online (details to be announced).						
				Assessment component 1 will be offered once a year in the winter semester; details on when assessment component 2 will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.						
514 OTH	other prerequisites			11-KM			,			
11-FM-QTH-102- mo1					· · · · · · · · · · · · · · · · · · ·	Semiconductor Nanostructures	1,	NA 1 1 1	Laura divista	
IIIOI		10	Duration		1 semester	Method of grading numerical grade		Modul level	graduate	
	Courses			Quantentransport in Halbleiter-Nanostrukturen (Quantum Transport in Semiconductor Nanostructures): V (3 weekly contact hours) + Ü/P (1 weekly contact hour), German or English, once a year (summer semester) Kompaktseminar Quantentransport in Halbleiternanostrukturen (Block Taught Seminar Quantum Transport in Semiconducto Nanostructures): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminal (3 days), usually held during semester break)					tum Transport in Semiconductor	
	Method of assessment			1. Top	oics covered in lect ination of one can	llowing assessment components ctures and exercises: written examination (ap ndidate each or oral examination in groups (a x. 30 to 45 minutes)				
				Stude Asses be off	ents must register ssment componen ered to be annour	ots 1 and 2 will be offered in German or Englis for assessment components 1 and 2 online (at 1 will be offered once a year in the summer nced. cudents must pass both assessment compon	(details to be semester; o	details on whe	en assessment component 2 will	

11-FM-MSS-102-	FOKUS	Resear	ch Module	e Methods in Surface	e Spectroscopy	'				
mo1	ECTS	8	Duration	ı semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		Methods in Surface Spectroscopy: V (3 weekly contact hours), usually English, once a year (winter semester) Kompaktseminar (Block Taught Seminar) Applications of Surface Spectroscopy: S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break)						
	Method of assessment			1. Topics covered in amination of one	e following assessment components lectures and exercises: written examination (ap candidate each or oral examination in groups (a prox. 30 to 45 minutes)					
				Assessment components 1 and 2 will be offered in German or English. Students must register for assessment components 1 and 2 online (details to be announced). Assessment component 1 will be offered once a year in the winter semester; details on when assessment component 2 will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.						
	other p	rerequi	sites	11-TQM, 11-KM2 , 11-FK2 (or 11-T3, 11-E5, 11-E7)						
11-FM-MSS-	FOKUS Research Module Methods in Surface Spectroscopy with Mini Research Project									
MF-102-m01	ECTS	12	Duration	1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses			Methods in Surface Spectroscopy: V (3 weekly contact hours), usually English, once a year (winter semester) Kosmologie (Cosmology): V (3 weekly contact hours) + Ü/P (1 weekly contact hour), German or English Kompaktseminar (Block Taught Seminar) Applications of Surface Spectroscopy: S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break) Miniforschungsprojekt zu Surface Spectroscopy (Mini Research Project Surface Spectroscopy): P (2 weekly contact hours)						
	Method of assessment			 Topics covered in amination of one Seminar: talk (apple) 	e following assessment components lectures and exercises: written examination (ap candidate each or oral examination in groups (a prox. 30 to 45 minutes) project report (approx. 8 pages)					
				Students must regis Assessment compor will be offered to be	nents 1 through 3 will be offered in German or Enster for assessment components 1 through 3 onl nent 1 will be offered once a year in the winter se announced. e, students must pass each of the assessment components.	ine (details to be annour emester; details on wher				
	other p	rerequi	sites	11-TQM, 11-KM2 , 11-	-FK2 (or 11-T3, 11-E5, 11-E7)					

11-FM-HAS-111-	FOKUS	Resear	ch Modul	e High	Energy Astrophy	sics					
mo1	ECTS	10	Duration	1	1 semester	Method of gradin	g numerical grade	Modul level	graduate		
	Course	S		Plasma-Astrophysik (Plasma-Astrophysics): V (3 weekly contact hours) + Ü/P (1 weekly contact hour), German or English, once a year (summer semester) Kosmologie (Cosmology): V (3 weekly contact hours) + Ü/P (1 weekly contact hour), German or English Kompaktseminar Hochenergie-Astrophysik (Block Taught Seminar High Energy Astrophysics): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break)							
	Method	d of ass	essment	This r 1. Top am	module has the fo pics covered in led ination of one car	llowing assessment of tures and exercises:	omponents	oo minutes) or talk	(approx. 30 minutes) or oral ex-		
				Stude Detai Lectu er).	ssessment components 1 and 2 will be offered in German or English. tudents must register for assessment components 1 and 2 online (details to be announced). etails on when assessment component 2 will be offered to be announced. ectures and exercises will cover either plasma-astrophysics or cosmology (as announced by or agreed upon with the lead). b) pass this module, students must pass both assessment component 1 and assessment component 2.						
	other p	rerequi	sites	11-A4, 11-KET							
11-FM-HAS-MF-111-											
mo1	ECTS	16	Duration		1 semester		g numerical grade	Modul level	graduate		
	Course	5		Plasma-Astrophysik (Plasma-Astrophysics): V (3 weekly contact hours) + Ü/P (1 weekly contact hour), German or English, once a year (summer semester) Kosmologie (Cosmology): V (3 weekly contact hours) + Ü/P (1 weekly contact hour), German or English Kompaktseminar Hochenergie-Astrophysik (Block Taught Seminar High Energy Astrophysics): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break) Astrophysikalisches Praktikum (Practical Course Astrophysics): P (4 weekly contact hours)							
	Method	d of ass	essment	1. Top am 2. Ser 3. Lab cor b) o	oics covered in lec ination of one can minar: talk (appro o course (research mpleted if a Testa	ndidate each or oral e x. 30 to 45 minutes) project): a) Preparing (exam) is passed. St	written examination (approx. 9 xamination in groups (approx. g, performing and evaluating th udents will be given one oppo	30 minutes) or pr ne experiments wi rtunity to repeat e	, , , , , , , , , , , , , , , , , , , ,		
				Stude Detai Lectu er).	ents must register ls on when asses res and exercises	for assessment component 2 www.will cover either plas	ered in German or English. Sonents 1 through 3 online (def will be offered to be announced ma-astrophysics or cosmology th assessment component 1 a	l. (as announced by	y or agreed upon with the lectur-		
	other p	rerequi	sites	11-A4, 11-KET							

11-FM-NOS-F-111-	FOKUS Research Module Spectroscopy and Nano-Optics										
mo1	ECTS	10	Duration	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		Festkörper-Spektroskopie (Solid State Spectroscopy): V (3 weekly contact hours) + Ü/P (1 weekly contact hour), German or English, once a year (summer semester) Kompaktseminar Nano-Optik und Spektroskopie (Block Taught Seminar Nano-Optics and Spectroscopy): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break)							
	Method of assessment			 Topics covered in lea amination of one car Seminar: talk (appro Assessment componer	ollowing assessment components ctures and exercises: written examination (approndidate each or oral examination in groups (appox. 30 to 45 minutes) onts 1 and 2 will be offered in German or English. of for assessment components 1 and 2 online (de	prox. 30 minutes) or pr	oject report (approx. 8 pages)				
				Assessment component 1 will be offered once a year in the summer semester; details on when assessment component 2 will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.							
	other p	rerequi	sites	11-KM, 11-TQM							
11-FM-NOS-N-111-	FOKUS Research Module Nano-Optics and Spectroscopy										
mo1	ECTS 8 Duration			1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses			semester) Kompaktseminar Nano	ics): V (2 weekly contact hours) + Ü/P (1 weekly o-Optik (Block Taught Seminar Nano-Optics): S (unced (block taught seminar (3 days), usually h	(2 weekly contact hour	s), German or English, details on				
	Method of assessment			1. Topics covered in lea	ollowing assessment components ctures and exercises: written examination (appr ndidate each or oral examination in groups (app ox. 30 to 45 minutes)						
				Students must register requisites to qualify fo the beginning of the coassessment componer be offered to be annou	nt 1 will be offered once a year in the summer se	etails to be announced ecturer will inform then emester; details on wh	en assessment component 2 will				

11-FM4-112-m01	FOKUS Research Module										
	ECTS	8	Duration	1	1 semester	Method of grading numerical grade		Modul level	graduate		
	Course	:S		FOKUS Vorlesung zu aktuellen Forschungsthemen (FOKUS Lecture on Topics in Current Research): V (2 weekly contact hours) + Ü/P (1 weekly contact hour), German or English, details on availability to be announced FOKUS Kompaktseminar (FOKUS Block Taught Seminar): S (2 weekly contact hours), German or English, details on availability to be announced							
	Method of assessment			This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) 2. Seminar: talk (approx. 30 to 45 minutes) Assessment components 1 and 2 will be offered in German or English.							
				Students must register for assessment components 1 and 2 online (details to be announced). Details on when assessment components will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.							
11-FM6-112-m01	FOKUS Research Module										
	ECTS 10 Duration		Duration		1 semester	Method of grading numerical grade		Modul level	graduate		
	Courses			FOKUS Vorlesung zu aktuellen Forschungsthemen (FOKUS Lecture on Topics in Current Research): V (3 weekly contact hours) + Ü/P (1 weekly contact hour), German or English, details on availability to be announced FOKUS Kompaktseminar (FOKUS Block Taught Seminar): S (2 weekly contact hours), German or English, details on availability to be announced							
	Method of assessment			1. Top	oics covered in le ination of one ca	ollowing assessment components ectures and exercises: written examination (ap andidate each or oral examination in groups (a ox. 30 to 45 minutes)					
				Stude Detail	ents must registe Is on when asses	ents 1 and 2 will be offered in German or English or for assessment components 1 and 2 online dissiment components will be offered to be anno distudents must pass both assessment compor	(details to bounced.				

11-FM8-112-m01	FOKUS Research Module										
	ECTS	12	Duration	1 1 :	semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		FOKUS Vorlesung zu aktuellen Forschungsthemen (FOKUS Lecture on Topics in Current Research): V (4 weekly contact hours) + Ü/P (2 weekly contact hours), German or English, details on availability to be announced FOKUS Kompaktseminar (FOKUS Block Taught Seminar): S (2 weekly contact hours), German or English, details on availability to be announced							
	Method of assessment			This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) 2. Seminar: talk (approx. 30 to 45 minutes)							
				Assessment components 1 and 2 will be offered in German or English. Students must register for assessment components 1 and 2 online (details to be announced). Details on when assessment components will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.							
11-FM4-MF-112-	FOKUS Research Module with Mini Research Project										
mo1	ECTS	12	Duration	1 1 1	semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		FOKUS Vorlesung zu aktuellen Forschungsthemen (FOKUS Lecture on Topics in Current Research): V (2 weekly contact hours) + Ü/P (1 weekly contact hour), German or English, details on availability to be announced FOKUS Kompaktseminar (FOKUS Block Taught Seminar): S (2 weekly contact hours), German or English, details on availability to be announced FOKUS Miniforschungsprojekt (FOKUS Mini Research Project): P (2 weekly contact hours), German or English, details on availability to be announced							
	Method	l of asso		 Topics amina Semin 	covered in lectu tion of one candi ar: talk (approx.		ritten examination (appro imination in groups (appi		(approx. 30 minutes) or oral ex- oject report (approx. 8 pages)		
				Students Details o	s must register fo on when assessm	r assessment compo ent components will	ed in German or English. nents 1 and 3 online (det be offered to be annound of the assessment comp	ced.			

11-FM6-MF-112-	FOKUS	Resear	ch Modul	e with Mini Research Pr	oject	'				
mo1	ECTS	14	Duration	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		FOKUS Vorlesung zu aktuellen Forschungsthemen (FOKUS Lecture on Topics in Current Research): V (3 weekly contact hours) + Ü/P (1 weekly contact hour), German or English, details on availability to be announced FOKUS Kompaktseminar (FOKUS Block Taught Seminar): S (2 weekly contact hours), German or English, details on availability to be announced FOKUS Miniforschungsprojekt (FOKUS Mini Research Project): P (2 weekly contact hours), German or English, details on availability to be announced						
	Method of assessment			This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) 2. Seminar: talk (approx. 30 to 45 minutes) 3. Research project: project report (approx. 8 pages) Assessment components 1 and 3 will be offered in German or English. Students must register for assessment components 1 and 3 online (details to be announced).						
				Details on when assessment components will be offered to be announced. To pass this module, students must pass each of the assessment components 1 through 3.						
11-FM8-MF-112-	FOKUS	Resear		e with Mini Research Project						
mo1		16	Duration		Method of grading numerical grade	Modul level	graduate			
	Course	S		FOKUS Vorlesung zu aktuellen Forschungsthemen (FOKUS Lecture on Topics in Current Research): V (4 weekly contact hours) + Ü/P (2 weekly contact hours), German or English, details on availability to be announced FOKUS Kompaktseminar (FOKUS Block Taught Seminar): S (2 weekly contact hours), German or English, details on availability to be announced FOKUS Miniforschungsprojekt (FOKUS Mini Research Project): P (2 weekly contact hours), German or English, details on availability to be announced						
	Method of assessment			 Topics covered in lec amination of one car Seminar: talk (appro 	ollowing assessment components ctures and exercises: written examination (appr ndidate each or oral examination in groups (app ox. 30 to 45 minutes) oject report (approx. 8 pages)					
				Assessment components 1 and 3 will be offered in German or English. Students must register for assessment components 1 and 3 online (details to be announced). Details on when assessment components will be offered to be announced. To pass this module, students must pass each of the assessment components 1 through 3.						

11-FM4A-112-m01	FOKUS	FOKUS Research Module										
	ECTS	8	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S	Ü/F FOI	FOKUS Vorlesung zu aktuellen Forschungsthemen (FOKUS Lecture on Topics in Current Research): V (2 weekly contact hours) + Ü/P (1 weekly contact hour), German or English, details on availability to be announced FOKUS Kompaktseminar (FOKUS Block Taught Seminar): S (2 weekly contact hours), German or English, details on availability to be announced								
	Method	d of ass	1. To a constant of the consta	This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) 2. Seminar: talk (approx. 30 to 45 minutes) Assessment components 1 and 2 will be offered in German or English. Students must register for assessment components 1 and 2 online (details to be announced). Details on when assessment components will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.								
11-FM6A-112-m01	FOKUS Research Module											
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S	Ü/F FOI	FOKUS Vorlesung zu aktuellen Forschungsthemen (FOKUS Lecture on Topics in Current Research): V (3 weekly contact hours) + Ü/P (1 weekly contact hour), German or English, details on availability to be announced FOKUS Kompaktseminar (FOKUS Block Taught Seminar): S (2 weekly contact hours), German or English, details on availability to be announced								
	Method	d of ass	1. T	This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) 2. Seminar: talk (approx. 30 to 45 minutes)								
			Stu Det	Assessment components 1 and 2 will be offered in German or English. Students must register for assessment components 1 and 2 online (details to be announced). Details on when assessment components will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.								

11-FM8A-112-m01	FOKUS Research Module										
	ECTS	12	Duration	1 semes	ter	Method of grading numerical grade		Modul level	graduate		
	Course	S		FOKUS Vorlesung zu aktuellen Forschungsthemen (FOKUS Lecture on Topics in Current Research): V (4 weekly contact hours) + Ü/P (2 weekly contact hours), German or English, details on availability to be announced FOKUS Kompaktseminar (FOKUS Block Taught Seminar): S (2 weekly contact hours), German or English, details on availability to be announced							
	Method	d of ass		 Topics cover amination o Seminar: tal 	ed in lect f one cand k (approx	lowing assessment components tures and exercises: written examination (didate each or oral examination in groups c. 30 to 45 minutes)	(approx. 3c				
				Assessment components 1 and 2 will be offered in German or English. Students must register for assessment components 1 and 2 online (details to be announced). Details on when assessment components will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.							
11-FM4A-MF-112-	FOKUS Mini Research Project										
mo1	ECTS	12	Duration	1 semes	ter	Method of grading numerical grade		Modul level	graduate		
	Course	S		FOKUS Vorlesung zu aktuellen Forschungsthemen (FOKUS Lecture on Topics in Current Research): V (2 weekly contact hours) + Ü/P (1 weekly contact hour), German or English, details on availability to be announced FOKUS Kompaktseminar (FOKUS Block Taught Seminar): S (2 weekly contact hours), German or English, details on availability to be announced FOKUS Miniforschungsprojekt (FOKUS Mini Research Project): P (2 weekly contact hours), German or English, details on availability to be announced							
	Method of assessment			 Topics coveramination o Seminar: tal 	ed in lect f one can k (approx	lowing assessment components tures and exercises: written examination (didate each or oral examination in groups k. 30 to 45 minutes) ject report (approx. 8 pages)					
				Assessment components 1 and 3 will be offered in German or English. Students must register for assessment components 1 and 3 online (details to be announced). Details on when assessment components will be offered to be announced. To pass this module, students must pass each of the assessment components 1 through 3.							

11-FM6A-MF-112-	FOKUS	Resear	ch Module	e with	Mini Research Proj	ject			
mo1	ECTS	14	Duration	ı	1 semester	Method of grading numerical grade		Modul level	graduate
	Course	S		FOKUS Vorlesung zu aktuellen Forschungsthemen (FOKUS Lecture on Topics in Current Research): V (3 weekly contact hours) + Ü/P (1 weekly contact hour), German or English, details on availability to be announced FOKUS Kompaktseminar (FOKUS Block Taught Seminar): S (2 weekly contact hours), German or English, details on availability to be announced FOKUS Miniforschungsprojekt (FOKUS Mini Research Project): P (2 weekly contact hours), German or English, details on availability to be announced					
	Method	d of ass		This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) 2. Seminar: talk (approx. 30 to 45 minutes) 3. Research project: project report (approx. 8 pages) Assessment components 1 and 3 will be offered in German or English. Students must register for assessment components 1 and 3 online (details to be announced). Details on when assessment components will be offered to be announced. To pass this module, students must pass each of the assessment components 1 through 3.					
11-FM8A-MF-112-	FOKUS Research Module with Mini Research Project								
mo1	ECTS	16	Duration	ı	1 semester	Method of grading numerical grade		Modul level	graduate
	Courses			FOKUS Vorlesung zu aktuellen Forschungsthemen (FOKUS Lecture on Topics in Current Research): V (4 weekly contact hours) + Ü/P (2 weekly contact hours), German or English, details on availability to be announced FOKUS Kompaktseminar (FOKUS Block Taught Seminar): S (2 weekly contact hours), German or English, details on availability to be announced FOKUS Miniforschungsprojekt (FOKUS Mini Research Project): P (2 weekly contact hours), German or English, details on availability to be announced					
	Method of assessment			This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) 2. Seminar: talk (approx. 30 to 45 minutes) 3. Research project: project report (approx. 8 pages)					
				Stude Detail	ents must register fo Is on when assessm	s 1 and 3 will be offered in German or Englis or assessment components 1 and 3 online (ment components will be offered to be anno idents must pass each of the assessment c	(details to b ounced.).

11-FM-TFP-141-m01	FOKUS Research Module Topology in Solid State Physics											
	ECTS	10	Duration	1 semester	Method of gradin	g numerical grade	Modul level	graduate				
	Course	S		German or English, or Kompaktseminar Topo	ce a year (summer ser ologie in der Festkörpe	nester) rphysik (Block Taught S	Seminar Topology in Solic	rs) + Ü/P (1 weekly contact hour), I State Physics): S (2 weekly con- rr (3 days), usually held during se-				
	Method of assessment			 Topics covered in le amination of one ca Seminar: talk (appr 	ectures and exercises: andidate each or oral e ox. 30 to 45 minutes)	written examination (ap xamination in groups (a	approx. 30 minutes) or pr	(approx. 30 minutes) or oral exoject report (approx. 8 pages)				
				Students must register Assessment componer be offered to be anno	r for assessment comp ent 1 will be offered ond unced.	ce a year in the summer	details to be announced	en assessment component 2 will				
11-FM-TFP-MF-141-	FOKUS	FOKUS Research Module Topology in Solid State Physics with Mini Research Project										
m01	ECTS	14	Duration			g numerical grade	Modul level	graduate				
	Course			Topologie in der Festkörperphysik (Topology in Solid State Physics): V (3 weekly contact hours) + Ü/P (1 weekly contact hour), German or English, once a year (summer semester) Kompaktseminar Topologie in der Festkörperphysik (Block Taught Seminar Topology in Solid State Physics): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break) Miniforschungsprojekt Topologie in der Festkörperphysik (Mini Research Project Topology in Solid State Physics): P (2 weekly contact hours), German or English, details on availability to be announced (either block taught during semester break or approx. 3 weeks part time)								
	Method of assessment			 Topics covered in leading amination of one ca Seminar: talk (appr 	ectures and exercises: andidate each or oral e	written examination (ap xamination in groups (a		((approx. 30 minutes) or oral exoject report (approx. 8 pages)				
				Students must registe Assessment compone 3 will be offered to be	r for assessment comp nt 1 will be offered one announced.	ce a year in the summer	ine (details to be announ	ced). en assessment components 2 and				

11-FM-QUI-141-mo:	1 FOKUS	Resea	rch Modul	e Quar	tum Information	Technology					
	ECTS	10	Duratio	<u> </u>	1 semester	Method of gra	ding numerica	al grade	Modul level	graduate	
	Course	es	,	Quanteninformationstechnologie (Quantum Information Technology): V (3 weekly contact hours) + Ü/P (1 weekly contact hour), German or English, once a year (winter semester) Kompaktseminar Quanteninformationstechnologie (Block Taught Seminar Quantum Information Technology): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break)							
	Method of assessme			This n 1. Top am	This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) 2. Seminar: talk (approx. 30 to 45 minutes)						
				Assessment components 1 and 2 will be offered in German or English. Students must register for assessment components 1 and 2 online (details to be announced). Assessment component 1 will be offered once a year in the winter semester; details on when assessment component 2 will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.							
11-FM-DFT-142-		_	rch Modul	e Dens	ity Functional Th	eory and the Physi	cs of Oxide He	eterostructure			
mo1	ECTS	8	Duration	1	1 semester	Method of gra	ding numerica	al grade	Modul level	graduate	
	Course		sessment								
	othern	orerequ	isites.	am 2. Ser Asses Stude Asses offere To pa	ination of one ca ninar: talk (appro sment componer ints must register sment componer d to be announce	ndidate each or ora x. 30 to 45 minute nts 1 and 2 will be of for assessment co nt 1 will be offered ed. tudents must pass	al examination (s) offered in Germ mponents 1 aronce a year in	in groups (approxinan or English. nd 2 online (details	30 minutes) or prosections and set of the se	assessment component 2 will be	
TI : / T.CT.C		Jierequ	isites	Recoi	illielided: 11-CM	<u> </u>					
Thesis (30 ECTS cr											
11-MA-PF-072-m01											
	ECTS	30	Duratio		1 semester	Method of gra	ding numerica	al grade	Modul level	graduate	
	Course				urses assigned						
			sessment		n thesis (approx.	, , , , ,					
	other p	orerequ	isites	Registration for assessment to be carried out electronically. Deadlines will be announced separately. Please consult with your supervisor.							
Master's with 1 major FC	OKUS Physic	s (2010)					JMU W	ürzburg • generated 26-Au	g-2024 • exam. reg. data r	record 88 e07 - - H 2010 page 93 / 93	