

Responsible: Faculty of Physics and Astronomy



Annex SFB

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

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

Examination regulations version: 2011

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

ASP02009

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

29-Jun-2011 (2011-39) except for mandatory electives added in Fast Track procedure at a later time

04-Nov-2014 (2014-70) except for mandatory electives added in Fast Track procedure at a later time

17-Dec-2014 (2014-84)

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

Every module will be described using the following form:

Abbreviation	Module title											
	ECTS	1	Duration	(in semesters)	Method of grading		Module level					
	Courses		To be spe	To be specified in the form X (y) with course type X abbreviated as specified above and number of weekly contact hours y								
	Method of as	ssessme	ent									
	Only after su completion of		l if applica	if applicable								
	Other prereq	uisites	if applica	if applicable								
	Participants on of places		ocati- if applica	if applicable								
	Additional in	formatio	on if applica	if applicable								
	Referred to in	n LPO I	if applica	if applicable (examination regulations for teaching-degree programmes)								

11-0SP-072-m01	Advanced Seminar Experimental/Theoretical Physics													
	ECTS	4	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course				information on SW		rs) and course language avai		0					
11-PFM-111-m01	Metho	d of as	essment			prox. 30 to 45 minutes			_					
			ctical Cou											
	ECTS	10	Duratio	n	1 semester	Method of grading	(not) successfully complete	d Modul level	graduate					
	Course	2S		Prep seminar for Fortgeschrittenen-Praktikum Master (Advanced Practical Course Master): S (1 weekly contact hour) 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 Fortgeschrittenen-Praktikum Master (Advanced Practical Course Master) Part 2: P (3 weekly contact hours), German or English Fortgeschrittenen-Praktikum Master (Advanced Practical Course Master) Part 3: P (3 weekly contact hours), German or English										
	Metho	d of ass	sessment	 Preiming Lal rim Perpagaing Lal rim Perpagaing Lal rim Perpagaing Lang Lang 	p seminar for Fortg nutes) o course in part 1 (F forming and evalua- re an experiment lo course in part 2 (F forming and evalua- re an experiment lo course in part 3 (F ent will be conside forming and evalua- re an experiment lo course in part 3 (F ent will be conside forming and evalua- re an experiment lo uage of assessment	ortgeschrittenen-Prakt red successfully comp ating the experiment w g (approx. 8 pages). ortgeschrittenen-Prakt red successfully comp ating the experiment w g (approx. 8 pages). ortgeschrittenen-Prakt red successfully comp ating the experiment w g (approx. 8 pages). t: German or English	n Master (Advanced Practica ikum Master/Advanced Prac leted if an oral test (approx. ill be considered successfull tikum Master/Advanced Prac leted if an oral test (approx. ill be considered successfull ikum Master/Advanced Prac leted if an oral test (approx. ill be considered successfull	tical Course Mas 30 minutes) is pa ly completed if a ctical Course Mas 30 minutes) is pa ly completed if a ctical Course Mas 30 minutes) is pa ly completed if a	: oral examination (approx. 5 to 10 ter Part 1): a) Preparing the expe- assed prior to the experiment. b) test is passed. Students must pre- ster Part 2): a) Preparing the expe- assed prior to the experiment. b) test is passed. Students must pre- ter Part 3): a) Preparing the expe- assed prior to the experiment. b) test is passed. Students must pre-					
11-FS-P-072-m01	Profes	sional	Specializa	Only Mast Stude sessr To pa	those students who er) will be allowed t ents will be offered nent component, th ss this module, stu	b have attended the pr o perform experiment one opportunity to ret ney must pass both ele	s as part of the courses Fortg	enen-Praktikum <i>N</i> reschrittenen-Pra ent b) in the respo e semester.	nced). Master (Advanced Practical Course ktikum Master Parts 1 through 3. ective semester. To pass an as-					
	ECTS	15	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course		Durution				rs) and course language avai		1 9.44446					
						nutes) with discussion								

Master's with 1 major Physics (2011)	JMU Würzburg • generated 26-Aug-2024 • exam. reg. data record 88 128 - - H 2011	page 3 / 58

11-MP-P-072-m01	Scienti	fic Meth	ods and	Project	t Management Physi	ics						
	ECTS	15	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	s		R (no information on SWS (weekly contact hours) and course language available)								
	Method	d of asse	essment	talk (a	approx. 30 to 45 min	utes) with discussio	1					
Compulsory Electiv	es (46 E	CTS cree	dits)									
Specialisation Physics (41 ECTS credits) Modules worth a total of 41 ECTS credits must be successfully completed. Of these 41 ECTS credits, no less than 10 are to be achieved in the sub-area "Experimentsik" ("Experimental Physics") and in the sub-area "Theoretische Physik" ("Theoretical Physics") each.												
Experimental Phys Students must achi		inimum	of 10 ECT	S cred	its.							
Applied Physics an	d Metro	logy (Ex	periment)								
11-ASL-131-m01	Applied	oplied Superconduction										
	ECTS	6	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	-			V + R (no information on SWS (weekly contact hours) and course language available)							
	Methoc	l of asse	essment	prox. on/se Asses nounc 2009.	30 minutes per cand minar presentation sment offered: When ced in due form unde	lidate) or c) project re (approx. 30 minutes) n and how often asso er observance of Sec	eport (approx. 8 to 10 pages, tin	ne to complete: s on the metho	d of assessment and will be an-			
	other p	rerequis	ites	tive d on to the le	etails at the beginnin assessment. If stude cturer will put their r	ng of the course. Reg ents have obtained t	istration for the course will be one qualification for admission to sment into effect. Students who	onsidered a de assessment o	form students about the respec- claration of will to seek admissi- ver the course of the semester, quisites will be admitted to as-			

11-BMS-121-m01	Imaging Methods at the Synchrotron													
	ECTS 4	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate							
	Courses	V +	R (no information of	on SWS (weekly contact	hours) and course language av	vailable)								
	Method of ass	min pre Ass nou	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 prerequ	tive on t the ses fica	e details at the begi to assessment. If s lecturer will put th sment in the currer ation for admission	nning of the course. Reg tudents have obtained t eir registration for asses	gistration for the course will be he qualification for admission sment into effect. Students wh	considered a de to assessment o no 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-BMS-131-m01	Imaging Methods at the Synchrotron													
	ECTS 4	Duration	1 semester Method of grading numerical grade Modul level graduate											
	Courses	V +	V + R (no information on SWS (weekly contact hours) and course language available)											
	Method of ass	pro on/ Ass nou 200	 a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in group prox. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presents on/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 regulat 2009. Language of assessment: German, English 											
	other prerequ	tive on t the	e details at the begi to assessment. If s lecturer will put th	nning of the course. Reg tudents have obtained t	gistration for the course will be he qualification for admission sment into effect. Students wh	considered a de to assessment c	form students about the respec- eclaration of will to seek admissi- over the course of the semester, quisites will be admitted to as-							

11-BSV-122-m01	Image a	and Sig	nal Proce	ssing i	n Physics								
	ECTS	6	Duration	า	1 semester	М	ethod of gradi	ng numerica	l grade	Modul level	graduate		
	Courses	5		V + R	V + R (no information on SWS (weekly contact hours) and course language available)								
	Method	l of asso	essment	minut prese Asses	es per candidate ntation (approx. sment offered: W ced in due form u	e) or c) 30 min Vhen a	project report nutes) nd how often a	(approx. 8 to issessment w	10 pages, time to c vill be offered deper	omplete: 1 to 4 w nds on the metho	amination in groups (approx. 30 veeks) or d) presentation/seminar od of assessment and will be an- and examination regulations)		
	other pi	rerequi		tive d on to the le sessn	etails at the begi assessment. If st cturer will put the	inning tudents eir regi nt or in	of the course. I s have obtaine istration for ass the subseque	Registration for d the qualific sessment into nt semester. I	or the course will be ation for admissior o effect. Students w	e considered a d n to assessment o ho 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-BSV-131-m01	Image a	and Sig	nal Proce	ssing i	n Physics								
	ECTS	6	Duration	า	1 semester	M	ethod of gradi	ng numerica	l grade	Modul level	graduate		
	Courses	5		V + R	(no information o	on SWS	6 (weekly conta	ict hours) and	d course language a	available)	· ·		
	Method of assessment			prox. on/se Asses noun 2009	30 minutes per c minar presentati sment offered: W ced in due form u	candida ion (ap Vhen a under o	ate) or c) projec pprox. 30 minut nd how often a observance of S	ct report (app ces) issessment w	rox. 8 to 10 pages, vill be offered deper	time to complete nds on the metho	r oral examination in groups (ap- e: 1 to 4 weeks) or d) presentati- od of assessment and will be an- and examination regulations)		
	other pi	rerequi	sites	tive d on to the le	etails at the begi assessment. If st	inning tudents eir regi	of the course. I s have obtaine istration for as	Registration for d the qualific sessment into	or the course will be ation for admissior o effect. Students w	e considered a d n to assessment (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	Quantu	m Infor	mation Te	echnol	ogy								
	ECTS	6	Duration		1 semester		ethod of gradi			Modul level	graduate		
	Courses	5		V + R	(no information o	on SWS	5 (weekly conta	act hours) and	d course language a	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) 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									

Master's with 1 major Physics (2011)	JMU Würzburg • generated 26-Aug-2024 • exam. reg. data record 88 128 - - H 2011	page 6 / 58

11-ZDR-111-m01	Princip	les of t	wo- and th	reedir	nensional Röntge	n imaging						
	ECTS	6	Duratior	า	1 semester	Method of gradi	ng numerical grad	de	Modul level	graduate		
	Course	S		V + R	(no information o	n SWS (weekly conta	act hours) and cou	ırse language ava	ailable)			
	Methoo	l 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, 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	prerequi	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 respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.							
11-0HL-092-m01	Organi	c Semic	onductor									
	ECTS	5	Duratior	า	1 semester	Method of gradi	ng numerical grad	de	Modul level	graduate		
	Course	s		V + Ü	(no information o	n SWS (weekly conta	act hours) and cou	urse language av:	ailable)			
	Method	1 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, 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 p	rerequi	sites	to qua cours obtain for as	alify for admissior e. Registration for ned the qualificati sessment into effo	n to assessment. The the course will be c ion for admission to ect. Students who m	e lecturer will infor onsidered a decla assessment over ieet all prerequisit	rm students abou aration of will to s the course of the tes will be admitt	ut the respectiv seek admission e semester, the ted to assessm	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 subse- n for admission to assessment an-		
11-ASL-092-m01	Applied	d Super	conductio	n								
	ECTS	6	Duratior	າ	1 semester	Method of gradi	ng numerical grad	de	Modul level	graduate		
	Course	s		R + V	(no information o	n SWS (weekly conta	act hours) and cou	urse language ava	ailable)			
	Method	l 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 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	prerequi	sites	Certai tive d on to the le sessn	in prerequisites m etails at the begin assessment. If stu cturer will put the nent in the current	nust be met to qualif nning of the course. Idents have obtaine ir registration for as	Registration for the d the qualificatior sessment into effe nt semester. For a:	e course will be on for admission to ect. Students who	considered a de o assessment o 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-		
Master's with 1 major Pl	nysics (2011)						JMU Würzburg	g • generated 26-Aug-20:	24 • exam. reg. data	record 88 128 - - H 2011 page 7 / 58		

11-ENT-092-m01	Princip	les of E	nergy Tec	hnolog	gies		1					
	ECTS	6	Duratior	า	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)							
	Methoo	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, 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			tive d on to the le sessn ficatio	etails at the begin assessment. If stu cturer will put thei nent in the current on for admission to	ust be met to qualify for admission to assess ning of the course. Registration for the course dents have obtained the qualification for adr r registration for assessment into effect. Stuc or in the subsequent semester. For assessme assessment anew.	e will be co mission to dents who	onsidered a de assessment o meet all prere	eclaration of will to seek admissi- over the course of the semester, quisites will be admitted to as-			
11-HLF-092-m01	Semiconductor Lasers - Principles and Current Research											
	ECTS	6	Duratior	I	1 semester	Method of grading numerical grade		Modul level	graduate			
	Course	S		R + V	(no information on	n SWS (weekly contact hours) and course lang	guage avai	ilable)				
	Methoo	d of ass	essment	prox. to 10 Asses nound 2009.	30 minutes per ca pages, time to con sment offered: Wh ced in due form un	approx. 90 minutes) or b) oral examination o ndidate, for modules with less than 4 ECTS or nplete: 1 to 4 weeks) or d) presentation/semi nen and how often assessment will be offered der observance of Section 32 Subsection 3 A nt: German, English	redits appi inar preser d depends	rox. 20 minute ntation (approx on the metho	es) or c) project report (approx. 8 x. 30 minutes) d of assessment and will be an-			
	other p	rerequi	sites	tive d on to the le sessn	etails at the begin assessment. If stu cturer will put thei nent in the current	ust be met to qualify for admission to assess ning of the course. Registration for the course dents have obtained the qualification for adr r registration for assessment into effect. Stuc or in the subsequent semester. For assessme assessment anew.	e will be co mission to dents who	onsidered a de assessment o meet all prere	claration of will to seek admissi- wer the course of the semester, quisites will be admitted to as-			

11-A2-092-m01	Electro	Electronics												
	ECTS	6	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate						
	Course	es		V + Ü	(no information	on SWS (weekly contact hours) and course lang	guage available)	_						
	Metho	d of ass	sessment	written examination (approx. 90 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.										
	other p	prerequi	isites	tive d on to the le sessn	etails at the begi assessment. If s cturer will put th nent in the currer	nust be met to qualify for admission to assess nning of the course. Registration for the course tudents have obtained the qualification for adr eir registration for assessment into effect. Stud nt or in the subsequent semester. For assessme to assessment anew.	e will be considered a de nission to assessment o lents who meet all prere	eclaration of will to seek admissi- over the course of the semester, equisites will be admitted to as-						
		pants a of place	nd allo- es	Only as part of pool of general key skills (ASQ): 15 places. Places will be allocated by lot.										
Solid State Physic	cs and Nanostructures (Experiment)													
11-ASL-092-m01	Applied Superconduction													
	ECTS	6	Duratio	n 1 semester Method of grading numerical grade		Modul level	graduate							
	Course			R + V (no information on SWS (weekly contact hours) and course language available)										
	Metho	d of ass	sessment	prox. pages Asses	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	prerequi	isites	tive d on to the le sessn	etails at the begi assessment. If s cturer will put th nent in the currer	nust be met to qualify for admission to assess nning of the course. Registration for the course tudents have obtained the qualification for adr eir registration for assessment into effect. Stud nt or in the subsequent semester. For assessme to assessment anew.	e will be considered a de nission to assessment o lents who meet all prere	eclaration of will to seek admissi- over the course of the semester, equisites will be admitted to as-						

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11-HLF-092-m01	Semico	onducto	r Lasers -	Princi	oles and Current R	esearch						
	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 langu	uage available)					
	Methoo	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	orerequi		tive d on to the le sessm	etails at the begin assessment. If stu cturer will put thei nent in the current	ust be met to qualify for admission to assessm ning of the course. Registration for the course v dents have obtained the qualification for admi r registration for assessment into effect. Stude or in the subsequent semester. For assessmer o assessment anew.	will be considered a de lission to assessment c ents who meet all prere	eclaration of will to seek admissi- over the course of the semester, quisites will be admitted to as-				
11-FK2-092-m01	Solid State Physics 2											
	ECTS	8	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 langu	uage available)					
	Methoo	d of ass		prox. to 10 Asses nound 2009.	30 minutes per ca pages, time to con sment offered: Wh ced in due form un	approx. 90 minutes) or b) oral examination of andidate, for modules with less than 4 ECTS created by the second se	edits approx. 20 minute ar presentation (appro depends on the metho	es) or c) project report (approx. 8 x. 30 minutes) d of assessment and will be an-				
	other p	rerequi		tive d on to the le sessm	etails at the begin assessment. If stu cturer will put thei nent in the current	ust be met to qualify for admission to assessm ning of the course. Registration for the course v dents have obtained the qualification for admi r registration for assessment into effect. Stude or in the subsequent semester. For assessmen o assessment anew.	will be considered a de ission to assessment o ents who meet all prere	eclaration of will to seek admissi- over the course of the semester, equisites will be admitted to as-				

11-FKS-092-m01	Solid St	ate Spe	ctroscopy									
	ECTS	6	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		R	2 + V (no information on	SWS (weekly contact	hours) and course language a	available)				
	Method	of asses	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 prerequisites			Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.								
11-HLP-092-m01	Semiconductor Physics											
	ECTS 6 Duratio				1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		R	2 + V (no information on	SWS (weekly contact	hours) and course language a	available)				
	Method	of asses	p to A n 2	orox. 3 0 10 p ssess ounce 009.	30 minutes per can bages, time to com sment offered: Wh	didate, for modules v plete: 1 to 4 weeks) of en and how often ass ler observance of Sec	vith less than 4 ECTS credits a r d) presentation/seminar pre essment will be offered deper	pprox. 20 minute sentation (appro nds on the metho	oral examination in groups (ap- es) or c) project report (approx. 8 x. 30 minutes) od of assessment and will be an- and examination regulations)			
	other pr	erequisi	ti o tł s	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.								

11-HNS-092-m01	Semico	nducto	r Nanostru	ictures	5								
	ECTS	6	Duration		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)								
	Methoo	l of asso		prox. 3 to 10 p Asses nounc 2009.	Language of assessment: German, English								
	other p	rerequi		tive de on to a the lea sessm	etails at the beginni assessment. If stud cturer will put their i	ng of the course. Reg ents have obtained tl registration for asses r in the subsequent s	sistration for the course will be he qualification for admission sment into effect. Students wh	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-MAG-092-m01	Magnetism												
	ECTS 6 Duratio				1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		R + V ((no information on S	SWS (weekly contact	hours) and course language av	ailable)					
	Methoo	l of ass		prox. to 10 p Asses nounc 2009.	30 minutes per cano bages, time to comp sment offered: Whe red in due form und	didate, for modules w elete: 1 to 4 weeks) or n and how often asso er observance of Sec	vith less than 4 ECTS credits ap r d) presentation/seminar pres	prox. 20 minute entation (appro: ls on the metho	d of assessment and will be an-				
	other p	rerequi		tive de on to a the lea sessm	etails at the beginni assessment. If stud cturer will put their i	ng of the course. Reg ents have obtained tl registration for asses r in the subsequent s	sistration for the course will be he qualification for admission sment into effect. Students wh	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-NAN-092-m01	Nanoa	nalytics										
	ECTS	6	Duration	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)							
	Metho	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 prerequisites			Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.								
11-NDS-092-m01	Low-Dimensional Structures											
	ECTS 4 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)				
	Metho	d of asse		prox. : to 10 p Asses nounc 2009.	30 minutes per can pages, time to com sment offered: Who ced in due form unc	didate, for modules v plete: 1 to 4 weeks) of en and how often assi der observance of Sec	vith less than 4 ECTS credits ap r d) presentation/seminar prese	prox. 20 minute entation (approx ls on the metho	d of assessment and will be an-			
	other p	prerequis		tive de on to a the lee sessm	etails at the beginn assessment. If stuc cturer will put their nent in the current o	ing of the course. Reg lents have obtained t registration for asses	gistration for the course will be he qualification for admission t sement into effect. Students wh	considered a de to assessment o o meet all prere	form students about the respec- cclaration 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-NOP-092-m01	Nano-C	Optics						_				
	ECTS	4	Duration	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)							
	Methoo	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 prerequisites			Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.								
11-QPM-092-m01	Quantum Phenomena in electronic correlated Materials											
	ECTS	6	Duration		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)				
	Methoo	l of asse		prox. 3 to 10 p Asses nounc 2009.	30 minutes per can pages, time to com sment offered: Wh ced in due form und	ndidate, for modules v plete: 1 to 4 weeks) of en and how often assi der 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	prerequis		tive de on to a the lee sessm	etails at the beginn assessment. If stud cturer will put their nent in the current o	ning of the course. Reg dents 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- cclaration 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-SPD-102-m01	Semiconductor Physics and Devices											
	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)								
	Metho	d of asso		written examination (approx. 90 minutes) or 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 project report (approx. 8 to 10 pa- ges, time to complete: 1 to 4 weeks) or 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								
		prerequi	1	tive de on to a the lee sessm ficatio	etails at the beginn assessment. If stuc cturer will put their pent in the current o on for admission to	ing of the course. Reg dents have obtained th registration for asses or in the subsequent s assessment anew.	sistration 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- 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-QTH-102-m01	Quantum Transport in Semiconductor Nanostructures											
	ECTS 6 Duratio				1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	!S	1	V + R (no information on	SWS (weekly contact	hours) and course language av	ailable)				
	Metho	d of asso		prox. 3 to 10 p Asses nounc 2009.	30 minutes per can bages, time to com sment offered: Wh ced in due form und	didate, for modules w plete: 1 to 4 weeks) or en and how often asse der observance of Sect	vith less than 4 ECTS credits ap r d) presentation/seminar prese	prox. 20 minute entation (appro» ds on the metho	d of assessment and will be an-			
	other p	prerequi	1	tive de on to a the lee sessm	etails at the beginn assessment. If stuc cturer will put their tent in the current o	ing of the course. Reg lents have obtained th registration for asses	sistration 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- 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-SPI-102-m01	Spintro	onics						_				
	ECTS	6	Duratior	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	s		V + R	/ + R (no information on SWS (weekly contact hours) and course language available)							
	Methoo	l 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							
	other p	prerequi	sites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.								
11-MSS-102-m01	Methods in Surface Spectroscopy											
	ECTS 4 Duratio			ו	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (no	information on SW	S (weekly contact hou	urs) and course language availa	ble)				
	Methoo	l of asso	essment	prox. to 10 Asses nound 2009.	30 minutes per can pages, time to com sment offered: Wh ced in due form unc	didate, for modules w plete: 1 to 4 weeks) or en and how often assi der observance of Sec	vith less than 4 ECTS credits ap r d) presentation/seminar prese	prox. 20 minute entation (appro) Is on the metho	d of assessment and will be an-			
	other p	prerequi	sites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.								

11-IEM-111-m01	Introdu	iction to	Electron N	Aicroscopy								
	ECTS	4	Duration	1 semeste	er Method of grading	numerical grade	Modul level	graduate				
	Course	S	١	/ + R (no inform	ation on SWS (weekly contact	hours) and course lan	iguage available)					
	Methoo	d of ass	r t r 2	anguage of assessment: German, English								
	other p	rerequi	t c t	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.								
11-CMS-131-m01	Computational Materials Science											
	ECTS	8	Duration	1 semeste	er Method of grading	numerical grade	Modul level	graduate				
	Course	S	١	V + R (no information on SWS (weekly contact hours) and course language available)								
	Methoo	d of ass	۲ م ۲ 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) 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 prerequisites			ive details at th on to assessme he lecturer will	e beginning of the course. Re nt. If students have obtained	gistration for the cours the qualification for ad ssment into effect. Stu	se will be considered a de Imission to assessment o	form students about the respec- claration of will to seek admissi- ver the course of the semester, quisites will be admitted to as-				

11-ASL-131-m01	Applie	d Super	conductio	n									
	ECTS	6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		V + R	(no information c	on SWS (weekly contact	hours) and course lang	guage available)					
	Methoo	1 of ass	essment	prox. on/se Asses nound 2009.	30 minutes per ca eminar presentati ssment offered: W ced in due form u	andidate) or c) project r on (approx. 30 minutes) /hen and how often ass	eport (approx. 8 to 10 p) essment will be offered	bages, time to complete I depends on the metho	oral examination in groups (ap- : 1 to 4 weeks) or d) presentati- d of assessment and will be an- and examination regulations)				
	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 respec- ive 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, he 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 semesters.								
11-FKS2-132-m01	Solid State Spectroscopy 2												
	ECTS 6 Duratio			n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			V + R	(no information c	on SWS (weekly contact	hours) and course lang	guage available)					
	Method of assessment			prox. on/se Asses nound 2009.	30 minutes per c. eminar presentati ssment offered: W ced in due form u	andidate) or c) project r on (approx. 30 minutes) /hen and how often ass	eport (approx. 8 to 10 p) essment will be offered	bages, time to complete I depends on the metho	oral examination in groups (ap- : 1 to 4 weeks) or d) presentati- d of assessment and will be an- and examination regulations)				
11-PMM-132-m01	Physic	s of Adv	anced Ma	aterials	5								
	ECTS	6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		V + R	(no information c	on SWS (weekly contact	hours) and course lang	uage available)	,				
	Method of assessment			prox. on/se Asses nound 2009.	30 minutes per ca eminar presentati ssment offered: W ced in due form u	andidate) or c) project r on (approx. 30 minutes) /hen and how often ass	eport (approx. 8 to 10 p) essment will be offered	bages, time to complete I depends on the metho	oral examination in groups (ap- : 1 to 4 weeks) or d) presentati- d of assessment and will be an- and examination regulations)				

Astrophysics and F	Particle P	hysics	(Experim	ent)								
11-A4-072-m01	Astroph	nysics										
	ECTS	6	Duration	1 I	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	S		V + S ((no information on S	WS (weekly contact	hours) and course language av	ailable)				
	Method of assessment			written examination (approx. 120 minutes)								
	other prerequisites			to qua course obtair for ass	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 a	Only as part of pool of general key skills (ASQ): 15 places. Places will be allocated by lot.							
11-ASM-131-m01	Astrono	omical N	Nethods									
	ECTS 6 Duratio		1 I	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	S		V + R (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 grouprox. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) preson/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 prerequisites			tive de on to a the lee sessm	etails at the beginnin assessment. If stude cturer will put their r	ng of the course. Reg ents have obtained t egistration for asses r in the subsequent s	sistration for the course will be he qualification for admission t sment into effect. Students who	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-ASP-092-m01	Introduct	tion to Space P	hysics									
	ECTS 6	5 Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		R + V	(no information on S	SWS (weekly contact	hours) and course language a	vailable)					
	Method c	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	requisites	tive d on to the le sessm	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.								
11-AWP-092-m01	Atmosphere and Space Physics											
	ECTS 6	5 Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	·	R + V	(no information on S	SWS (weekly contact	hours) and course language a	vailable)					
	Method o	of assessment	prox. nar pr Asses nounc 2009.	30 minutes per can esentation (approx. sment offered: Whe ced in due form und	didate) or c) project r 30 minutes) n and how often ass er observance of Sec	eport (approx. 8 pages, time to	o complete: 1 to . ds on the metho	oral examination in groups (ap- 4 weeks) or d) presentation/semi- d of assessment and will be an- and examination regulations)				
	other pre	requisites	tive d on to the le sessm	etails at the beginni assessment. If stud cturer will put their	ng of the course. Reg ents have obtained t registration for asses r in the subsequent s	gistration for the course will be he qualification for admission sment into effect. Students wi	e considered a de to assessment c ho 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-TPE-092-m01	Experimental P	Particle Physics										
	ECTS 4	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses	R + V	(no information on S	SWS (weekly contact	hours) and course language av	ailable)						
	Method of asse	prox. to 10 Asses noun 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 prerequis	tive c on to the le sessi	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.									
11-TPS-092-m01	Particle Physics (Standard Model)											
	ECTS 8	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses	R + V	(no information on S	SWS (weekly contact	hours) and course language av	ailable)						
	Method of asse	prox. to 10 Asse noun 2009	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in 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 an nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination rep 2009. Language of assessment: German, English									
	other prerequis	tive c on to the le sessi	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.									

11-WWB-102-m01	Strong	Interac	tion in Acc	celerat	tor Experiments							
	ECTS	3	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V + R	(no information or	SWS (weekly contact	hours) and course language av	/ailable)				
	Methoo	d of ass		prox. to 10 Asses nound 2009.	anguage of assessment: German, English							
	other p	orerequi		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 respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.							
11-APP-111-m01	Practical Course Astrophysics											
			Duration	I	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course	S		P (no	P (no information on SWS (weekly contact hours) and course language available)							
	Methoo	d of ass		sed. E stand Asses	Experiments that wing of the physics soment offered: Wh ced in due form un	ere not successfully co related contents and r ren and how often ass	ompleted can be repeated once results of the experiment (appro	e. Or b) discussion ox. 20 minutes). ds on the metho	d of assessment and will be an-			
	other prerequisites			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. Reg dents have obtained t r registration for asses	gistration for the course will be he qualification for admission sement into effect. Students wh	considered a de to assessment o no meet all prere	form students about the respec- cclaration 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-DTS-111-m01	Particle Radiation Detectors													
	ECTS 4	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate							
	Courses	V + Ü	(no information on	SWS (weekly contact	hours) and course language av	/ailable)								
	Method of asse	prox. to 10 Asses noun 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 prerequis	tive d on to the le sessr	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.											
11-MAS-111-m01	Modern Astrophysics													
	ECTS 4	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate							
	Courses	V + R	(no information on	SWS (weekly contact	hours) and course language av	vailable)								
	Method of asse	prox. to 10 Asses noun 2009	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in 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 reg 2009. Language of assessment: German, English											
	other prerequis	tive d on to the le sessr	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.											

Complex Systems,	Quantu	m Contro	ol and Bio	physic	cs (Experiment)								
11-NOP-092-m01	Nano-C	ptics											
	ECTS	4	Duratior	า	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		R + V ((no information on)	SWS (weekly contact	hours) and course language a	available)					
	Methoo	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									
		rerequis		Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.									
11-BMT-092-m01	Biophysical Measurement Technology in Medical Science												
	ECTS	6	Duratior	า	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	s		R + V (no information on SWS (weekly contact hours) and course language available)									
	Methoo	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		tive de on to a the lee sessm	etails at the beginn assessment. If stud cturer will put their	ing of the course. Reg lents have obtained t registration for asses or in the subsequent s	ristration for the course will b he qualification for admission sment into effect. Students w	e considered a de n to assessment o vho 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-LMB-092-m01	Laborato	ry and Measur	ement	Technology in Bio	physics						
	ECTS 6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		R + V	(no information or	n SWS (weekly contact	hours) and course lang	guage available)				
	Method o	f assessment	prox. to 10 Asses noun 2009	30 minutes per ca pages, time to con ssment offered: Wh ced in due form un	ndidate, for modules w nplete: 1 to 4 weeks) of hen and how often ass	vith less than 4 ECTS c r d) presentation/semi essment will be offered	redits approx. 20 minut nar presentation (appro d depends on the metho	r oral examination in groups (ap- es) or c) project report (approx. 8 ix. 30 minutes) od of assessment and will be an- and examination regulations)			
	other pre	requisites	tive d on to the le sessn	letails at the begin assessment. If stu ecturer will put thei nent in the current	ning of the course. Reg idents have obtained t ir registration for asses	gistration for the course he qualification for add sment into effect. Stud	e will be considered a d mission to assessment dents who 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-SDC-092-m01	Statistics	, Data Analysi	s and (Computer Physics							
	ECTS 4	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		R + V	+ V (no information on SWS (weekly contact hours) and course language available)							
	Method o	rassessment	prox. to 10 Asses nound 2009 Langu	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	requisites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.								
Current Topics in E	xperiment	al Physics									
11-FPA-112-m01	Visiting R	esearch Proje	ct								
	ECTS 1	o Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		R (no	information on SV	VS (weekly contact hou	irs) and course langua	ge available)				
	Method o	fassessment		project report (approx. 10 to 20 pages) Language of assessment: German, English							
	other pre	requisites	Appro	Approval by examination committee required.							
			Additional information on module duration: 1 to 2 semesters.								

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11-EXE5-111-m01	Current	t Topics	in Experi	menta	l Physics							
	ECTS	5	Duratio	n	1 semester	Method of gradin	g numerical grade	Modul l	evel	graduate		
	Course	s	•	V + R	(no information of	on SWS (weekly conta	ct hours) and course lang	guage available)		·		
	Methoo	l of ass	essment	speci modu week	ified) or b) oral ex ules with less tha s) or d) presentat	amination of one can n 4 ECTS credits appro	didate each or oral exam	ination in groups ect report (approx	(appro	ox. 90 minutes; unless otherwise x. 30 minutes per candidate, for 10 pages, time to complete: 1 to 4		
	other p	rerequi	sites	Appr	oval by examinati	ion committee require	d.					
11-EXE6-111-m01		-		menta	l Physics							
	L	6	Duratio		1 semester	Method of gradin	g numerical grade	Modul l	evel	graduate		
	Course	S	1	V + R	(no information of	on SWS (weekly conta	ct hours) and course lang	guage available)				
	Method	d of ass	essment	speci modu week	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 nodules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 veeks) or d) presentation/seminar presentation (approx. 30 minutes) .anguage of assessment: German, English							
	other p	rerequi	sites	Appr	oval by examinati	ion committee require	d.					
11-EXE7-111-m01	Current Topics in Experimental Physics											
	ECTS	7	Duratio	n	1 semester	Method of gradin	g numerical grade	Modul l	evel	graduate		
	Course	S	_	V + R	V + R (no information on SWS (weekly contact hours) and course language available)							
	Method of assessment			speci modu week	a) written examination (approx. 120 minutes, for modules with less than 4 ECTS credits approx. 90 minutes; unless or specified) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candi modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to comple weeks) or d) presentation/seminar presentation (approx. 30 minutes) Language of assessment: German, English					x. 30 minutes per candidate, for		
	other p	rerequi	sites	Approval by examination committee required.								
11-EXE8-111-m01	Current	t Topics	in Experi	menta	l Physics							
	ECTS	8	Duratio	n	1 semester	Method of gradin	g numerical grade	Modul l	evel	graduate		
	Course	S	•	V + R	(no information of	on SWS (weekly conta	ct hours) and course lang	guage available)				
	Method of assessment			speci modu week	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 p	rerequi	sites	Appr	oval by examinat	ion committee require	d.					

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11-EXP6-111-m01	Curren	t Topics	in Physic									
	ECTS	6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V + R	(no information o	n SWS (weekly contact	hours) and course lang	uage available)				
	Metho	d of ass	essment						ox. 90 minutes; unless otherwise			
				modu week	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 p	orerequi	sites	Appro	oval by examination	on committee required						
11-EXE6A-112-m01	Curren	t Topics	of Experi	imenta	l Physics							
	ECTS	6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V + R	(no information o	n SWS (weekly contact	hours) and course lang	uage available)				
	Metho	d of ass	essment	prox. to 10	a) written examination (approx. 120 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) and a page of assessment: German, English							
	other p	rerequi	sites	Appro	val by examination	on committee required						
Applied Physics an	ieve a minimum of 10 ECTS credits. Id Metrology (Theory) Introduction to Plasmaphysics											
11-EPP-092-m01	ECTS	6	Duratio					Modul level	graduata			
			Duratio		1 semester		, ř		graduate			
	Course	-			V + R (no information on SWS (weekly contact hours) and course language available) a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (ap-							
	Metho	u oi ass	essment	prox. 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	prerequi	sites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.								

11-TDO-092-m01	Therm	odynam	ics and Ec	onom	ics									
	ECTS	6	Duration	1	1 semester	Method of gradin	g numerical grade		Modul level	graduate				
	Course	25		R + V (no information on SWS (weekly contact hours) and course language available)										
	Metho	d of ass		prox. to 10 Asses nound 2009.	30 minutes per car pages, time to com ssment offered: Wh ced in due form uno	ndidate, for modules pplete: 1 to 4 weeks) nen and how often as	with less than 4 ECT or d) presentation/sessessment will be offe	IS credits app eminar prese ered depend	prox. 20 minute entation (appro ls on the metho	oral examination in groups (ap- es) or c) project report (approx. 8 x. 30 minutes) of of assessment and will be an- and examination regulations)				
	other p	prerequi		tive d on to the le sessn	etails at the beginr assessment. If stu- cturer will put their nent in the current	ning of the course. R dents have obtained r registration for ass	egistration for the co I the qualification for essment into effect. S	urse will be o admission to Students who	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-TDOE-141-mo1	Therm	Thermodynamics and Economics												
	ECTS	3	Duration	1	1 semester	Method of gradin	g (not) successfully	completed	Modul level	graduate				
	Course	25		V (no	information on SW	/S (weekly contact h	ours) and course lang	guage availal	ble)					
	Metho	d of ass		prox.	30 minutes per car		t report (approx. 8 to			oral examination in groups (ap- : 1 to 4 weeks) or d) presentati-				
Solid State Physic	cs and Nanostructures (Theory)													
11-CRP-131-m01	Critica	l Pheno	mena											
	ECTS	6	Duration	1	1 semester	Method of gradin	g numerical grade		Modul level	graduate				
	Course	2S		V + R	V + R (no information on SWS (weekly contact hours) and course language available)									
	Method of assessment			tion (a Asses nound 2009.	approx. 30 minutes ssment offered: Wh ced in due form un	s) ien and how often as	ssessment will be off	ered depend	ls on the metho	, presentation/seminar presenta- od of assessment and will be an- and examination regulations)				
	other p	prerequi		Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.										

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11-QM2-092-m01	Quantun	n Mechanics II											
-	ECTS	8 Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Courses		R + V	(no information on	SWS (weekly contact	hours) and course language a	available)						
	Method	of assessment	prox. to 10 Asses noun 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	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 respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.									
11-QVTP-092-m01	Many Body Quantum Theory												
	ECTS 8	8 Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses		R + V	(no information on	SWS (weekly contact	hours) and course language a	available)						
	Method	of assessment	prox. to 10 Asses noun 2009	30 minutes per can pages, time to com ssment offered: Wh ced in due form und	didate, for modules v plete: 1 to 4 weeks) o en and how often ass ler observance of Sec	with less than 4 ECTS credits a r d) presentation/seminar pre essment will be offered depe	approx. 20 minute esentation (appro nds on the metho	oral examination in groups (ap- es) or c) project report (approx. 8 x. 30 minutes) d of assessment and will be an- and examination regulations)					
	other pre	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 respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.									

-	Relativ	istic Eff	ects in Me	sosco	pic Systems			_					
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	Courses			R + V (no information on SWS (weekly contact hours) and course language available)								
	Methoo	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	1	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.									
11-TFK-092-m01	Theoretical Solid State Physics												
	ECTS 8 Duratio				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 av	ailable)					
	Methoo	d of asse		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 regulation 2009. Language of assessment: German, English									
	other p	rerequis	1	tive de on to a the leo sessm	etails at the begin assessment. If stu cturer will put the tent in the current	ning of the course. Reg idents have obtained t ir registration for asses	gistration for the course will be he qualification for admission t sment into effect. Students wh	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-TSL-092-m01	Theory o	f Superconduc	ion										
ļ	ECTS 5	5 Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses		R + V (R + V (no information on SWS (weekly contact hours) and course language available)									
	Method o	of assessment	prox. 3 to 10 p Asses nounc 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	tive de on to a the lee sessm	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.									
11-RMFT-102-m01	Renormalization Group Methods in Field Theory												
	ECTS e	5 Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses		V + R ((no information on S	SWS (weekly contact	hours) and course language av	ailable)						
	Method o	of assessment	prox. 3 to 10 p Asses nounc 2009.	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 w nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regula 2009. Language of assessment: German, English									
	other pre	requisites	tive de on to a the lee sessm	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.									

	Electron Electron Interaction											
	ECTS 4	Duration	1 semester Method of grading numerical grade Modul level graduate									
	Courses	V + R	(no information on	SWS (weekly contact	hours) and course language av	vailable)						
	Method of asse	prox. to 10 Asse noun 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 prerequis	tive of on to the lo sess	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.									
11-TFK2-111-m01	Theoretical Solid State Physics 2											
	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 av	vailable)						
	Method of asse	prox. to 10 Asse noun 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 prerequis	tive of on to the lo sess	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.									

11-FTFK-112-m01	Field Theory in Solid State Physics										
	ECTS	8	Duration	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)										
	Methoo	l 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.							
	other p	other prerequisites			Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.						
11-DFT-142-m01	Density	y Functi	onal Theo	ory and	the Physics of O	xide Heterostructure					
	ECTS	4	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	s	<u> </u>	V + D	(no information o	n SWS (weekly contact	hours) and course lang	uage available)	·		
				minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pa- 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 an- 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 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 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. Language of assessment: German or English							
	other prerequisites			Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.							

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11-CMS-131-m01	Computational Materials Science										
	ECTS	8	Duration	n	1 semester	Method of grad	ing numerical grade		Modul level	graduate	
	Course	S		V + R	(no information o	n SWS (weekly cont	act hours) and cours	e language av	ailable)		
	Methoo	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							
	other p	rerequi	sites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive 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 as- sessment in the current or in the subsequent semesters.							
11-UGS-131-m01	Disord	ered Sy	stems						46		
	ECTS	4	Duration	n	1 semester	Method of grad	ing numerical grade		Modul level	graduate	
	Course	s	_	V + R	(no information o	n SWS (weekly cont	act hours) and cours	e language av	ailable)		
	other prerequisites			prox. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentati- on/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							
				Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive 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 as- sessment in the current or in the subsequent semesters.							
11-TOPO-132-mo1	Topolo	<u> </u>									
	ECTS	6	Duration		1 semester	-	ing numerical grade		Modul level	graduate	
	Courses Method of assessment			V + R (no information on SWS (weekly contact hours) and course language available)							
				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							

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11-TFP-132-m01	Topolo	Topology in Solid State Physics										
	ECTS	ECTS 6 Duration		n	1 semester	Method of grading nume	rical grade	Modul level	graduate			
	Course	es		V + R	(no information o	n SWS (weekly contact hours)	and course languag	ge available)	-			
	Metho	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) 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							
Astrophysics and	Particle I	Physics	(Theory)									
11-A4-072-m01	Astrop	hysics										
	ECTS	6	Duratio	n	1 semester	Method of grading nume	rical grade	Modul level	undergraduate			
	Course	S		V + S	no information o	n SWS (weekly contact hours)	and course languag	ge available)	-			
	Metho	d of ass	sessment	writte	n examination (a	prox. 120 minutes)						
	other prerequisites			Admission prerequisite to assessment: successful completion of approx. 50% of exercises. Certain prerequisites must be me 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 registratio for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subse quent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment a ew.								
	cation of places			Only as part of pool of general key skills (ASQ): 15 places. Places will be allocated by lot.								
11-EPP-092-m01	Introduction to Plasmaphysics											
	ECTS 6 Duration			n	1 semester	Method of grading nume	rical grade	Modul level	graduate			
	Course	25		V + R (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 p	prerequ	isites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.								

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	Cosmology										
	ECTS 6 Duration		1 semester Method of grading numerical grade Modul level graduate								
	Course	s		R + V ((no information on	SWS (weekly contact	hours) and course language a	vailable)			
	Methoo	1 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 prerequisites			Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.							
11-APL-092-m01	Plasma	a-Astrop	hysics								
	ECTS 6 Duratio			1 I	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			R + V (no information on SWS (weekly contact hours) and course language available)							
	Methoo	l of asse		prox. (to 10 p Asses nound 2009.	30 minutes per car pages, time to com sment offered: Wh ced in due form und	ndidate, for modules v plete: 1 to 4 weeks) of en and how often assi der observance of Sec	vith less than 4 ECTS credits a r d) presentation/seminar pres	pprox. 20 minute sentation (approx Ids on the metho	d of assessment and will be an-		
	other p	prerequis		Language of assessment: German, English Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.							

11-ASP-092-m01	Introduction to Space Physics											
	ECTS	6	Duratior	۱	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			R + V	(no information on S	SWS (weekly contact	hours) and course language av	ailable)				
	Methoo	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	rerequi	sites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.								
11-GRT-092-m01	Group Theory											
	ECTS 6 Duratio			l	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			R + V	R + V (no information on SWS (weekly contact hours) and course language available)							
	Methoo	d of ass	essment	prox. to 10 p Asses nound 2009.	30 minutes per canc pages, time to comp sment offered: Whe ced in due form unde	lidate, for modules w lete: 1 to 4 weeks) or n and how often asso er observance of Sec	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 p	rerequi	sites	tive de on to the le sessm	etails at the beginni assessment. If stude cturer will put their r	ng of the course. Reg ents have obtained tl registration for asses r in the subsequent s	sistration for the course will be on the qualification for admission the sment into effect. Students who	considered a de o assessment o 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-QFT2-092-m01	Quantum Field Theory II												
	ECTS	6	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	5	R	R + V (I	no information on S	SWS (weekly contact	hours) and course language	available)					
	Method	l of asse	p to A n 2	orox. 3 0 10 p Assess 10unce 2009.	o minutes per cano ages, time to comp sment offered: Whe	didate, for modules w elete: 1 to 4 weeks) of n and how often asso er observance of Sec	vith less than 4 ECTS credits r d) presentation/seminar pr essment will be offered depo	approx. 20 minute resentation (appro ends on the metho	oral examination in groups (ap- es) or c) project report (approx. 8 x. 30 minutes) of of assessment and will be an- and examination regulations)				
	other pi	rerequis	ti o th s	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.									
11-RNT-092-m01	Renormalization Theory												
	ECTS	6	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	5	R	R + V (I	no information on S	SWS (weekly contact	hours) and course language	available)					
	Method	l of asse	p to A n 2	orox. 3 10 10 p Assess 10unce 2009.	o minutes per cano ages, time to comp sment offered: Whe	didate, for modules w elete: 1 to 4 weeks) of n and how often asso er observance of Sec	vith less than 4 ECTS credits r d) presentation/seminar pr essment will be offered dep	approx. 20 minute resentation (appro ends on the metho	oral examination in groups (ap- es) or c) project report (approx. 8 x. 30 minutes) of of assessment and will be an- and examination regulations)				
	other pi	rerequis	ti o tł s	ive de on to a he lec sessm	tails at the beginni assessment. If stud turer will put their	ng of the course. Reg ents have obtained t registration for asses r in the subsequent s	sistration for the course will he qualification for admissions and the second structure s	be considered a de on to assessment o who 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-RQFT-092-m01	Relativ	istical (Quantumfi	eld Th	eory						
	ECTS	8	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			R + V ((no information on	SWS (weekly contact	hours) and course language av	ailable)			
	Methoo	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	rerequi		Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.							
11-RTT-092-m01	Theory of Relativity										
	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 available)							
	Methoo	d of ass		prox. to 10 p Asses nounc 2009.	30 minutes per cal pages, time to com sment offered: Wh ced in due form un	ndidate, for modules v iplete: 1 to 4 weeks) o ien and how often ass der observance of Sec	vith less than 4 ECTS credits ap r d) presentation/seminar prese	prox. 20 minute entation (appro: Is on the metho	d of assessment and will be an-		
	other p	rerequi		Language of assessment: German, English Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.							

11-TEP-092-m01	Theoretical Ele	ementary F	Particle Physics							
	ECTS 8	Duration	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses		R + V (no information of	on SWS (weekly contact hours) and course l	language available)					
	Method of ass		prox. 30 minutes per c to 10 pages, time to co Assessment offered: V	n (approx. 90 minutes) or b) oral examinatio candidate, for modules with less than 4 ECT omplete: 1 to 4 weeks) or d) presentation/se When and how often assessment will be offe under observance of Section 32 Subsection ent: German, English	S credits approx. 20 minu eminar presentation (app ered depends on the meth	tes) or c) project report (approx. 8 rox. 30 minutes) nod of assessment and will be an-				
	other prerequi		Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.							
11-TPS-092-m01	Particle Physics (Standard Model)									
	ECTS 8	Duration	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses		R + V (no information of	on SWS (weekly contact hours) and course l	language available)					
	Method of ass		prox. 30 minutes per c to 10 pages, time to cc Assessment offered: V nounced in due form u 2009.	n (approx. 90 minutes) or b) oral examinatio candidate, for modules with less than 4 ECT omplete: 1 to 4 weeks) or d) presentation/se When and how often assessment will be offe under observance of Section 32 Subsection ent: German, English	S credits approx. 20 minu eminar presentation (app ered depends on the meth	tes) or c) project report (approx. 8 rox. 30 minutes) nod of assessment and will be an-				
	other prerequi		Language of assessment: German, English Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.							

11-SUS-092-m01	Supers	symmet	ry I and II									
	ECTS	6	Duratio	n	1 semester	Method of grading	numerical grade		Modul level	graduate		
	Course	:S	•	V + R	(no information of	on SWS (weekly contact	hours) and course la	anguage ava	ilable)	•		
	Metho	d of ass	sessment	prox. to 10 Asses noun 2009	30 minutes per c pages, time to cc ssment offered: V ced in due form u	andidate, for modules v omplete: 1 to 4 weeks) o Vhen and how often ass	with less than 4 ECTS or d) presentation/se sessment will be offe	S credits app eminar prese ered depends	prox. 20 minute ntation (appro s on the methe	r oral examination in groups (ap- es) or c) project report (approx. 8 ox. 30 minutes) od of assessment and will be an- and examination regulations)		
	other p	prerequi	isites	tive d on to the le sessr	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.							
11-AST-092-m01	Theore	tical As	strophysic	S	j							
	ECTS 6 Duration		n	1 semester	Method of grading	numerical grade	Î	Modul level	graduate			
	Courses		R + V	(no information of	on SWS (weekly contact	hours) and course la	anguage ava	ilable)	·			
	Method of assessment		writte	en examination (a	pprox. 120 minutes)							
11-MAS-111-m01	Moder	n Astro	physics									
	ECTS	4	Duratio	n	1 semester	Method of grading	numerical grade		Modul level	graduate		
	Course	S		V + R	(no information of	on SWS (weekly contact	hours) and course la	anguage ava	ilable)			
	Metho	d of ass	sessment	prox. to 10 Asses noun 2009	30 minutes per c pages, time to cc ssment offered: V ced in due form u	andidate, for modules v mplete: 1 to 4 weeks) o Vhen and how often ass	with less than 4 ECTS or d) presentation/se sessment will be offe	S credits app eminar prese ered depends	prox. 20 minute ntation (appro s on the methe	r oral examination in groups (ap- es) or c) project report (approx. 8 ix. 30 minutes) od of assessment and will be an- and examination regulations)		
	other p	prerequi	isites	tive d on to the le sessr	etails at the begi assessment. If st cturer will put th nent in the currer	nning of the course. Reg tudents have obtained t eir registration for asses	gistration for the cou the qualification for a ssment into effect. Si	urse will be c admission to students who	onsidered a do assessment 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-		

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11-NMA-111-m01	Computational Astrophysics										
	ECTS	6	Duration	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S	V	' + R (no informatio	on on SWS (weekly contact hours) and course lar	nguage available)					
	Methoo	1 of ass	p o A n 2	rox. 30 minutes pe n/seminar presen ssessment offered ounced in due for 009.	tion (approx. 120 minutes) or b) oral examination er candidate) or c) project report (approx. 8 to 10 tation (approx. 30 minutes) d: When and how often assessment will be offere m under observance of Section 32 Subsection 3. sment: German, English	o pages, time to complete ed depends on the metho	e: 1 to 4 weeks) or d) presentati- od of assessment and will be an-				
	other p	prerequi	ti o th s	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.							
11-ETT-111-m01	Introduction to Elementary Particle Theory										
	ECTS	4	Duration	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S	V	V (no information on SWS (weekly contact hours) and course language available)							
	Methoo	1 of ass	p to A n 2	rox. 30 minutes pe o 10 pages, time to ssessment offered ounced in due for 009.	tion (approx. 90 minutes) or b) oral examination er candidate, for modules with less than 4 ECTS of complete: 1 to 4 weeks) or d) presentation/sem d: When and how often assessment will be offere m under observance of Section 32 Subsection 3 sment: German, English	credits approx. 20 minut ninar presentation (appro ed depends on the metho	es) or c) project report (approx. 8 ox. 30 minutes) od of assessment and will be an-				
	other p	prerequi	ti o tł s	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.							

11-QSG-102-m01	Quantum Loop Gravity											
	ECTS	4	Duratior	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5		V + S	(no information on	SWS (weekly contact	hours) and course language a	vailable)				
	Method	l of ass		 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 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 pr	rerequi		Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.								
11-ATT-111-m01	Concep	ts of Th	eoretical	Astrop	oarticle physics							
	ECTS	4	Duratior	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5		V + R	(no information on	SWS (weekly contact	hours) and course language a	vailable)				
	Method	l of asso		prox. to 10 Asses	30 minutes per car pages, time to com sment offered: Wh ced in due form un	ndidate, for modules v pplete: 1 to 4 weeks) of ten and how often ass	vith less than 4 ECTS credits a r d) presentation/seminar pres	oprox. 20 minute sentation (appro ds on the metho	d of assessment and will be an-			
	other prerequisites			Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.								

11-ART-112-m01	General Theor	ry of Relativity								
	ECTS 4	Duration	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses	V +	V + R (no information on SWS (weekly contact hours) and course language available)							
	Method of ass	pro to 1 Ass nou	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 on the ses fica	e details at the begi to assessment. If st lecturer will put the sment in the currer	must be met to qualify for admission to ass inning of the course. Registration for the co tudents have obtained the qualification for eir registration for assessment into effect. nt or in the subsequent semester. For asses to assessment anew.	ourse will be considered a d r admission to assessment Students who meet all prer	eclaration of will to seek admissi- over the course of the semester, equisites will be admitted to as-				
11-SRT-112-m01	Special Theory of Relativity									
	ECTS 4	Duration	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses	V +	R (no information c	on SWS (weekly contact hours) and course	language available)					
	Method of ass	pro to 1 Ass	x. 30 minutes per c to pages, time to co sessment offered: W unced in due form u	n (approx. 90 minutes) or b) oral examinati candidate, for modules with less than 4 EC omplete: 1 to 4 weeks) or d) presentation/s When and how often assessment will be off under observance of Section 32 Subsectior	TS credits approx. 20 minut seminar presentation (appro fered depends on the methe	es) or c) project report (approx. 8 ox. 30 minutes) od of assessment and will be an-				
	other prerequi	tive on the ses	e details at the begi to assessment. If st lecturer will put the sment in the currer	must be met to qualify for admission to ass inning of the course. Registration for the co tudents have obtained the qualification for eir registration for assessment into effect. nt or in the subsequent semester. For asses to assessment anew.	ourse will be considered a d r admission to assessment Students who meet all prer	eclaration of will to seek admissi- over the course of the semester, equisites will be admitted to as-				

Complex Systems,	Quantur	m Contro	ol and Biop	physic	s (Theory)						
11-PKS-092-m01	Physics	s of Com	plex Syste	ems							
	ECTS	6	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S	<u> </u>	R + V (I	no information on	SWS (weekly contact	hours) and course language a	available)			
	Methoo	l of asse	 	prox. 3 to 10 p Assess nounce 2009.	o minutes per car bages, time to com sment offered: Wh ed in due form un	ndidate, for modules v plete: 1 to 4 weeks) of en and how often ass	vith less than 4 ECTS credits a d) presentation/seminar pre essment will be offered depe	approx. 20 minute esentation (appro nds on the metho	oral examination in groups (ap- es) or c) project report (approx. 8 x. 30 minutes) d of assessment and will be an- and examination regulations)		
	other p	rerequis	1	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.							
11-QIC-092-m01	Quantu	im Infor	mation and	d Quar	ntum Computing						
	ECTS 5 Duratio				1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	s		R + V (no information on SWS (weekly contact hours) and course language available)							
	Methoo	l of asse	 	prox. 3 to 10 p Assess nounce 2009.	o minutes per car bages, time to com sment offered: Wh ed in due form un	ndidate, for modules v plete: 1 to 4 weeks) of en and how often ass	vith less than 4 ECTS credits a d) presentation/seminar pre essment will be offered depe	approx. 20 minute esentation (appro nds on the metho	oral examination in groups (ap- es) or c) project report (approx. 8 x. 30 minutes) d of assessment and will be an- and examination regulations)		
	other p	rerequis	1	tive de on to a the lec sessm	tails at the beginr assessment. If stu- turer will put their ent in the current	ning of the course. Reg dents have obtained t registration for asses	istration for the course will b he qualification for admission sment into effect. Students w	e considered a de n to assessment c vho 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-		

Current Topics in T	heoretical Phy	sics							
11-FPA-112-m01	Visiting Rese	arch Proje	ct						
	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses		R (no	R (no information on SWS (weekly contact hours) and course language available)					
	Method of as	sessment		project report (approx. 10 to 20 pages)					
				lage of assessment:					
	other prerequ			,	committee required.				
	Additional Inf				module duration: 1 to	o 2 semesters.			
11-EXT5-111-m01	Current Topic			Physics	· · · · · · · · · · · · · · · · · · ·				
	ECTS 5	Duratio		1 semester	Method of grading		Modul level	graduate	
	Courses			-		iours) and course language av	-		
	Method of as	sessment	speci modu weeks	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 nodules 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) .anguage of assessment: German, English					
	other prerequ	isites	Appro	val by examination	committee required.				
11-EXT6-111-m01	Current Topic	s in Theor	etical F	Physics					
	ECTS 6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses			/ + R (no information on SWS (weekly contact hours) and course language available)					
	Method of as	sessment	speci modu weeks	fied) or b) oral exam lles with less than 4	ination of one candid ECTS credits approx. /seminar presentatio	ate each or oral examination in	n groups (appro	ox. 90 minutes; unless otherwise x. 30 minutes per candidate, for to pages, time to complete: 1 to 4	
	other prerequ	isites	Appro	oval by examination	committee required.				
11-EXT7-111-m01	Current Topic	s in Theor	etical F	Physics					
	ECTS 7	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses	_	V + R	(no information on S	SWS (weekly contact h	nours) and course language av	ailable)		
	Method of as: other prerequ		speci modu weeks Langu	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 nodules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 veeks) or d) presentation/seminar presentation (approx. 30 minutes) anguage of assessment: German, English					
	j otner prerequ	isites	INDPC	a by examination	commutee required.				

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11-EXT8-111-m01	Curren	t Topics	in Theore	etical I	hysics						
	ECTS	8	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V + R	/ + R (no information on SWS (weekly contact hours) and course language available)						
	Metho	d of asso	essment	speci modu week) written examination (approx. 120 minutes, for modules with less than 4 ECTS credits approx. 90 minutes; unless otherwise pecified) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for nodules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 veeks) or d) presentation/seminar presentation (approx. 30 minutes) anguage of assessment: German, English						
	other prerequisites			Appro	oval by examinatio	on committee required					
11-EXP6-111-m01	Curren	t Topics	in Physic	:s							
	ECTS	6	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			V + R	(no information or	SWS (weekly contact	t hours) and course language a	vailable)			
	Method of assessment			speci modu week	a) written examination (approx. 120 minutes, for modules with less than 4 ECTS credits approx. 90 minutes; unless othen specified) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, nodules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 weeks) or d) presentation/seminar presentation (approx. 30 minutes) .anguage of assessment: German, English						
	other prerequisites			Approval by examination committee required.							
11-EXT6A-112-m01	Curren	t Topics	of Theore	etical I	hysics						
	ECTS	6	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V + R	(no information on	SWS (weekly contact	t hours) and course language a	vailable)			
	Method of assessment			prox. to 10	a) written examination (approx. 120 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. 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	Approval by examination committee required.						

Non-Physics Subs	idiary Subjects	(5 ECTS cr	edits)						
Mathematics									
10-M-NM1-082-	Numerical Ma	athematics	1						
m01	ECTS 8	Duratio	n	1 semester	Method of gradi	ng numerical grade		Modul level	undergraduate
	Courses		V + Ü	(no information	on SWS (weekly cont	act hours) and course la	nguage ava	ailable)	
	Method of as	sessment	exam	ination of one ca	andidate each (appro		l examinati		tion can be replaced by an oral roups of 2, approx. 30 minutes)
	other prerequ	iisites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.						
	Referred to in	LPO I	§73 (1) 5. Mathematik	Angewandte Mather	natik			
10-M-NM2-082-	Numerical Mathematics 2								
m01	ECTS 5 Duratio		n	1 semester	Method of gradi	ng numerical grade		Modul level	undergraduate
	Courses		V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of as	sessment	written examination (approx. 90 minutes); if announced by the lecturer, the written examination can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English if agreed upon with the examiner						
	other prerequ	iisites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.						
	Referred to in	LPO I	§73 (1) 5. Mathematik	< Angewandte Mather	natik			

10-M-VAN-082-	Advanc	ed Ana	lysis								
m01	ECTS	8	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S	_	Ü + V	(no information o	on SWS (weekly contact	t hours) and course la	nguage available)			
	Methoo	d of ass	essment	exam	written examination (approx. 90 minutes); if announced by the lecturer, the written examination can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English if agreed upon with the examiner						
	other p	orerequi	sites	tive d on to the le sessr	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive 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 as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.						
	Referre			- / 2	(1) 1. Mathematik	Analysis					
11-EXNP6-112-m01			Minor Sub	<u> </u>	1				-		
		6	Duration		1 semester	Method of grading	-	Modul level	graduate		
	Course				-	n SWS (weekly contact	-				
				a) written examination (approx. 120 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) Language of assessment: German, English							
	•	rerequi		Appro	Approval by examination committee required.						
10-M=AAAN-102-	Applie		_		1 semester Method of grading numerical grade Modul level graduate						
m01	ECTS	10	Duration		1 semester			Modul level	graduate		
	Course				V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Methoo	d of ass	essment	At the beginning of the course, the lecturer will choose one of the following methods of assessment: a) written examination (90 to 120 minutes), b) oral examination of one candidate each (approx. 20 minutes), c) oral examination in groups (groups of 2, approx. 30 minutes) Assessment offered: Assessment offered in the semester in which the course is offered and in the subsequent semester, course offered on demand or every four semesters. Language of assessment: German, English							
	other p	rerequi	sites	corda (e.g. tails a asses turer in the	nce with the spec successful compl at the beginning o ssment. If student will put their regis	ified registration dead etion of a certain perce of the course. Registrati s have obtained the qu stration for assessment subsequent semester.	llines. Certain prerequentage of exercises). T ion for the exercise wi ualification for admiss t into effect. Students	isites must be met to qu he lecturer will inform st Il be considered a declar ion to assessment over t who meet all prerequisit	as announced by the lecturer in ac- alify for admission to assessment udents about the respective de- ation of will to seek admission to the course of the semester, the lec- es will be admitted to assessment ave to obtain the qualification for		

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10-M=ADG- M-102-m01	Differential Geometry											
M-102-m01	ECTS	10	Duratior	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	-			V + Ü (no information on SWS (weekly contact hours) and course language available)							
	Methoo	d of ass		At the beginning of the course, the lecturer will choose one of the following methods of assessment: a) written examination (90 to 120 minutes), b) oral examination of one candidate each (approx. 20 minutes), c) oral examination in groups (groups of 2, approx. 30 minutes) Assessment offered: Assessment offered in the semester in which the course is offered and in the subsequent semester, course offered on demand or every four semesters. Language of assessment: German, English								
	other p	rerequi		cordat (e.g.s tails a asses turer v in the	nce with the specifi successful complet It the beginning of t sment. If students h will put their registra	ed registration deadl ion of a certain perce he course. Registration nave obtained the qua ation for assessment bsequent semester. I	ines. Certain prerequisites mus ntage of exercises). The lecture on for the exercise will be consi alification for admission to ass into effect. Students who meet	at be met to qua er will inform stu idered a declara essment over the all prerequisite	as announced by the lecturer in ac- alify for admission to assessment udents about the respective de- ation of will to seek admission to he course of the semester, the lec- es will be admitted to assessment ave to obtain the qualification for			
10-M=AFT-	Complex Analysis											
H-102-m01	ECTS 10 Duratio			า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V + Ü	(no information on	SWS (weekly contact	hours) and course language av	/ailable)				
	Methoo	d of ass		(90 to 2, app Asses se offe	9 120 minutes), b) or prox. 30 minutes) sment offered: Asso	ral examination of on essment offered in th every four semesters	e candidate each (approx. 20 n e semester in which the course	ninutes), c) oral	essment: a) written examination l examination in groups (groups of in the subsequent semester, cour-			
	other p	rerequi		cordat (e.g.s tails a asses turer v in the	nce with the specifi successful complet It the beginning of t sment. If students h will put their registra	ed registration deadl ion of a certain perce he course. Registration nave obtained the qua ation for assessment bsequent semester. I	ines. Certain prerequisites mus ntage of exercises). The lecture on for the exercise will be consi alification for admission to ass into effect. Students who meet	at be met to qua er will inform stu idered a declara essment over th all prerequisite	as announced by the lecturer in ac- alify for admission to assessment udents about the respective de- ation of will to seek admission to he course of the semester, the lec- es will be admitted to assessment ave to obtain the qualification for			

10-M=ALTH-102-	Lie Theory											
m01	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V + Ü	/ + Ü (no information on SWS (weekly contact hours) and course language available)							
	Methoo	d of asse		At the beginning of the course, the lecturer will choose one of the following methods of assessment: a) written examination (90 to 120 minutes), b) oral examination of one candidate each (approx. 20 minutes), c) oral examination in groups (groups of 2, approx. 30 minutes) Assessment offered: Assessment offered in the semester in which the course is offered and in the subsequent semester, course offered on demand or every four semesters. Language of assessment: German, English								
	other p	rerequis		corda (e.g.s tails a asses turer v in the	nce with the specifi successful completi at the beginning of t sment. If students h will put their registra	ed registration deadl ion of a certain perce he course. Registration nave obtained the qua ation for assessment bsequent semester. I	ines. Certain prerequisites mus ntage of exercises). The lecture on for the exercise will be consi alification for admission to ass into effect. Students who meet	at be met to qua er will inform stu idered a declara essment over th all prerequisite	as announced by the lecturer in ac- alify for admission to assessment udents about the respective de- ation of will to seek admission to ne course of the semester, the lec- es will be admitted to assessment ave to obtain the qualification for			
10-M=A-	Topology											
TOP-102-m01	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V + Ü (no information on SWS (weekly contact hours) and course language available)								
	Methoo	d of asse		(90 to 2, app Asses se offe	o 120 minutes), b) or prox. 30 minutes) ssment offered: Asse	ral examination of on essment offered in th every four semesters	e candidate each (approx. 20 n e semester in which the course	ninutes), c) oral	ssment: a) written examination examination in groups (groups of in the subsequent semester, cour-			
	other p	rerequis		corda (e.g.s tails a asses turer v in the	nce with the specifi successful completi at the beginning of t sment. If students h will put their registra	ed registration deadl ion of a certain perce he course. Registration nave obtained the qua ation for assessment bsequent semester. I	ines. Certain prerequisites mus ntage of exercises). The lecture on for the exercise will be consi alification for admission to ass into effect. Students who meet	st be met to qua er will inform stu idered a declara essment over th t all prerequisite	as announced by the lecturer in ac- alify for admission to assessment udents about the respective de- ation of will to seek admission to ne course of the semester, the lec- es will be admitted to assessment ave to obtain the qualification for			

10-M=AZTH-102-	Number Theory											
m01	ECTS	10	Duration		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)							
	Methoo	d of ass		At the beginning of the course, the lecturer will choose one of the following methods of assessment: a) written examination (90 to 120 minutes), b) oral examination of one candidate each (approx. 20 minutes), c) oral examination in groups (groups of 2, approx. 30 minutes) Assessment offered: Assessment offered in the semester in which the course is offered and in the subsequent semester, course offered on demand or every four semesters. Language of assessment: German, English								
	other p	rerequi		cordan (e. g. s tails a assess turer v in the	nce with the specifi successful completi It the beginning of t sment. If students h will put their registra	ed registration deadl on of a certain perce he course. Registration have obtained the qu ation for assessment bsequent semester.	ines. Certain prerequisites mus ntage of exercises). The lecture on for the exercise will be consi alification for admission to ass into effect. Students who meet	t be met to qua r will inform stu dered a declara essment over th all prerequisite	as announced by the lecturer in ac- alify for admission to assessment adents about the respective de- ation of will to seek admission to be course of the semester, the lec- es will be admitted to assessment ave to obtain the qualification for			
10-M=VGDS-102-	Groups and their Representations											
m01	ECTS	10	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V + Ü (no information on SWS (weekly contact hours) and course language available)								
	Methoo	d of ass		(appro nation Asses se offe	ox. 90 to 120 minute n in groups of 2 can sment offered: Asse	es; usually chosen), b didates (approx. 30 n essment offered in th every four semesters	b) oral examination of one cand ninutes total) e semester in which the course	lidate each (app	ssment: a) written examination prox. 20 minutes), c) oral exami- in the subsequent semester, cour-			
	other p	rerequi		cordan (e. g. s tails a assess turer v in the	nce with the specifi successful completi It the beginning of t sment. If students h will put their registra	ed registration deadl on of a certain perce he course. Registration have obtained the qu ation for assessment bsequent semester.	ines. Certain prerequisites mus ntage of exercises). The lecture on for the exercise will be consi alification for admission to ass into effect. Students who meet	t be met to qua r will inform stu dered a declara essment over th all prerequisite	is announced by the lecturer in ac- llify for admission to assessment idents about the respective de- ation of will to seek admission to ne course of the semester, the lec- es will be admitted to assessment ave to obtain the qualification for			

10-M=V-	Geometrical Mechanics											
GEM-102-m01	ECTS	10	Duration	I	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)							
	Methoo	l of ass		At the beginning of the course, the lecturer will choose one of the following methods of assessment: a) written examination (approx. 90 to 120 minutes; usually chosen), b) oral examination of one candidate each (approx. 20 minutes), c) oral examination in groups of 2 candidates (approx. 30 minutes total) Assessment offered: Assessment offered in the semester in which the course is offered and in the subsequent semester, course offered on demand or every four semesters. Language of assessment: German, English								
	other p			corda (e.g. tails a asses turer in the admis	nce with the spec successful compl at the beginning o ssment. If student will put their regis current or in the ssion to assessme	ified registration dead letion of a certain perce of the course. Registrati is have obtained the qu stration for assessment subsequent semester.	lines. Certain prerequisites entage of exercises). The lec on for the exercise will be c alification for admission to into effect. Students who n	must be met to qua turer will inform stu onsidered a declara assessment over t neet all prerequisit	as announced by the lecturer in ac- alify for admission to assessment udents about the respective de- ation of will to seek admission to he course of the semester, the lec- es will be admitted to assessment ave to obtain the qualification for			
10-M=VN-	Numeri	Numeric of Partial Differential Equations										
PE-102-m01	ECTS	10	Duration	I	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V + Ü	(no information o	n SWS (weekly contact	hours) and course languag	e available)				
	Methoo	l of ass		(90 to 2, app Asses se off	o 120 minutes), b) prox. 30 minutes) ssment offered: As fered on demand o	oral examination of on	ne candidate each (approx. ne semester in which the co	20 minutes), c) ora	essment: a) written examination l examination in groups (groups of in the subsequent semester, cour-			
	other p	rerequi		corda (e.g.: tails a asses turer v in the	nce with the spec successful compl at the beginning o ssment. If student will put their regis	ified registration dead letion of a certain perce of the course. Registrati is have obtained the qu stration for assessment subsequent semester.	lines. Certain prerequisites entage of exercises). The lec on for the exercise will be c alification for admission to into effect. Students who n	must be met to qua turer will inform stu onsidered a declara assessment over t neet all prerequisite	as announced by the lecturer in ac- alify for admission to assessment udents about the respective de- ation of will to seek admission to he course of the semester, the lec- es will be admitted to assessment ave to obtain the qualification for			

10-M=V-	Discrete Mathematic											
DIM-102-m01	ECTS	5	Duration	1	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)							
	Methoo	d of ass		At the beginning of the course, the lecturer will choose one of the following methods of assessment: a) written examination (60 to 90 minutes), b) oral examination of one candidate each (approx. 15 minutes), c) oral examination in groups (groups of 2, approx. 20 minutes) Assessment offered: Assessment offered in the semester in which the course is offered and in the subsequent semester, course offered on demand or every four semesters. Language of assessment: German, English								
	other p			cordar (e.g.s tails a assess turer w in the admis	nce with the specific successful completi t the beginning of tl sment. If students h will put their registra current or in the su ssion to assessment	ed registration deadl on of a certain perce he course. Registration have obtained the qu ation for assessment bsequent semester.	ines. Certain prerequisites mus ntage of exercises). The lecture on for the exercise will be consi alification for admission to asso into effect. Students who meet	t be met to qua r will inform stu dered a declara essment over th all prerequisite	is announced by the lecturer in ac- ilify for admission to assessment idents about the respective de- ation of will to seek admission to ne course of the semester, the lec- es will be admitted to assessment ave to obtain the qualification for			
10-M=VMPH-102-	Selected Topics in Mathematical Physics											
m01	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V + Ü ((no information on S	SWS (weekly contact	hours) and course language av	ailable)				
	Methoo	d of ass		(60 to 2, app Assess se offe	90 minutes), b) ora prox. 20 minutes) sment offered: Asse	Il examination of one essment offered in th every four semesters	e candidate each (approx. 15 mi e semester in which the course	nutes), c) oral e	ssment: a) written examination examination in groups (groups of in the subsequent semester, cour-			
	other p	rerequi		cordar (e. g. s tails a assess turer w in the	nce with the specifi successful completi t the beginning of tl sment. If students h vill put their registra	ed registration deadl on of a certain perce he course. Registration have obtained the qu ation for assessment bsequent semester.	ines. Certain prerequisites mus ntage of exercises). The lecture on for the exercise will be consi alification for admission to asso into effect. Students who meet	t be met to qua r will inform stu dered a declara essment over th all prerequisite	is announced by the lecturer in ac- llify for admission to assessment idents about the respective de- ation of will to seek admission to ne course of the semester, the lec- es will be admitted to assessment ave to obtain the qualification for			

10-M=VQK-	Quantu	ım Con	trol and Q	uantur	n Computing			antum Computing						
C-102-m01	ECTS	5	Duratio	1	1 semester	Method of g	grading	numerical grade	Modul leve	el graduate				
	Course	S		V + Ü	(no information o	on SWS (weekly	contact	hours) and course lan	guage available)					
	Metho	d of ass	sessment	(60 to 2, ap Asses se off	At the beginning of the course, the lecturer will choose one of the following methods of assessment: a) written examination (60 to 90 minutes), b) oral examination of one candidate each (approx. 15 minutes), c) oral examination in groups (groups of 2, approx. 20 minutes) Assessment offered: Assessment offered in the semester in which the course is offered and in the subsequent semester, course offered on demand or every four semesters. Language of assessment: German, English									
	other p	rerequi	isites	corda (e.g. tails a asses turer in the	Registration for the exercise must be made via SB@home at the beginning of the course or as announced by the lecturer in ac- cordance with the specified registration deadlines. Certain prerequisites must be met to qualify for admission to assessment (e. g. successful completion of a certain percentage of exercises). The lecturer will inform students about the respective de- tails at the beginning of the course. Registration for the exercise 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 lec- turer 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.									
Computer Science														
11-EXNP6-112-m01	Non-Ph	nysical	Minor Sub	oject										
	ECTS				1 semester	Method of g	grading	numerical grade	Modul leve	el graduate				
	Courses		V + R	(no information o	on SWS (weekly o	contact	hours) and course lan	guage available)						
	Methoo	Method of assessment				andidate) or c) p on (approx. 30 r	project re ninutes)	eport (approx. 8 to 10		h or oral examination in groups (ap- ete: 1 to 4 weeks) or d) presentati-				
	other p	other prerequisites			Approval by examination committee required.									
10-I-DB-102-m01	Databa	ses												
	ECTS	5	Duratio	า	1 semester	Method of g	grading	numerical grade	Modul leve	el undergraduate				
	Course	s	•	V + Ü	(no information o	on SWS (weekly	contact	hours) and course lan	guage available)	· · ·				
	Method of assessment			written examination (approx. 50 to 60 minutes) if announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups (one candidate each: 15 minutes, groups of 2: 20 minu- tes, groups of 3: 25 minutes) Language of assessment: German, English if agreed upon with the examiner										
	other prerequisites			Admi	Admission prerequisite to assessment: exercises (type and scope to be announced by the lecturer at the beginning of the course).									
-	Referre	Referred to in LPO I			§ 49 (1) 1. b) Datenbanksysteme und Softwaretechnologie § 69 (1) 1. b) Datenbanksysteme und Softwaretechnologie									

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10-I-00P-102-m01	Object-oriente	d Progran	nming						
	ECTS 5	Duratior	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses			-		hours) and course language av			
	Method of asso	essment	written examination (approx. 50 to 60 minutes); if announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups (one candidate each: 15 minutes, groups of 2: 20 minutes, groups of 3: 25 minutes) Language of assessment: German, English if agreed upon with the examiner						
	other prerequis	sites	Admission prerequisite to assessment: exercises (type and scope to be announced by the lecturer at the beginning of the course).						
10-I-AR-102-m01	Automation an	d Control	Techn	ology					
	ECTS 8	Duratior	ı	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses		V + Ü	(no information on	SWS (weekly contact	hours) and course language av	ailable)		
	Method of asso		writte 90 mi (appro Langu	written examination (approx. 80 to 90 minutes). If announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups. A 80 to 90 minute written examination is equivalent to a 20 minute (approx.) oral examination of one candidate each, a 30 minute (approx.) oral examination in groups of 2 and a 40 minute (approx.) oral examination in groups of 3. Language of assessment: German, English if agreed upon with the examiner					
	other prerequi	sites	Admission prerequisite to assessment: exercises (type and scope to be announced by the lecturer at the beginning of the course).						
10-I-BS-102-m01	Operating Sys	tems							
	ECTS 5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses			V + Ü (no information on SWS (weekly contact hours) and course language available)					
	Method of asso	essment	written examination (approx. 50 to 60 minutes); if announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups (one candidate each: 15 minutes, groups of 2: 20 minutes, groups of 3: 25 minutes) Language of assessment: German, English if agreed upon with the examiner						
	other prerequi		Admission prerequisite to assessment: exercises (type and scope to be announced by the lecturer at the beginning of the course).						
	Referred to in L	PO I	§69 (1) 1. c) Informatik T	echnische Informatik				
10-I-RAK-102-m01	Computer Arch	itecture							
	ECTS 5	Duration		1 semester	Method of grading		Modul level	undergraduate	
	Courses			-	. ,	hours) and course language av	-		
	Method of asso	essment	written examination (approx. 50 to 60 minutes); if announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups (one candidate each: 15 minutes, groups of 2: 20 minutes, groups of 3: 25 minutes) Language of assessment: German, English if agreed upon with the examiner						
	other prerequis		Admission prerequisite to assessment: exercises (type and scope to be announced by the lecturer at the beginning of the course).						
	Referred to in L	POI	§69 (1) 1. c) Informatik T	echnische Informatik				

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10-I=PVS-102-m01	1 Programming of Distributed Systems							
	ECTS 8 Duration		า	1 semester	Method of grading r	numerical grade	Modul level	graduate
	Courses		V + Ü	(no information on S	SWS (weekly contact h	ours) and course language	available)	
	Method of assessment written examination (approx. 80 to 90 minutes). If announced by the lecturer by four weeks prior to written examination can be replaced by an oral examination of one candidate each or an oral examination is equivalent to a 20 minute (approx.) oral examination of one candidate (approx.) oral examination in groups of 2 and a 40 minute (approx.) oral examination in groups of Language of assessment: German, English if agreed upon with the examiner					l examination in groups. A 80 to e candidate each, a 30 minute		
	other prerequis	sites	Where	e applicable, prereq	uisites as specified by	the lecturer at the beginnin	g of the course (e	.g. completion of exercises).
10-I=KI-102-m01	Artificial Intelligence							
	ECTS 8	Duration	า	1 semester	Method of grading r	numerical grade	Modul level	graduate
	Courses		V + Ü	(no information on S	SWS (weekly contact h	ours) and course language	available)	
	Method of assessment		written examination (approx. 80 to 90 minutes); if announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups (one candidate each: 15 minutes, groups of 2: 20 minutes, groups of 3: 25 minutes) Language of assessment: German, English if agreed upon with the examiner					
	other prerequis	sites	Where	e applicable, prereq	uisites as specified by	the lecturer at the beginnin	g of the course (e	.g. completion of exercises).
10-I=DB2-102-m01	102-mo1 Databases II							
	ECTS 5	Duration		1 semester	Method of grading r	_	Modul level	graduate
	Courses		V + Ü (no information on SWS (weekly contact hours) and course language available)					
			written examination (approx. 50 to 60 minutes); if announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups (one candidate each: 15 minutes, groups of 2: 20 minutes, groups of 3: 25 minutes) Language of assessment: German, English if agreed upon with the examiner					
	other prerequisites Where applicable, prerequisites as specified by the lecturer at the beginning of the course (e. g. completion of exercise)					. g. completion of exercises).		
10-I=PA-102-m01	mo1 Program Design and Analysis							
	ECTS 5	Duration		1 semester	Method of grading r		Modul level	graduate
	Courses					ours) and course language		
			written examination (approx. 50 to 60 minutes); if announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups (one can- didate each: 15 minutes, groups of 2: 20 minutes, groups of 3: 25 minutes) Language of assessment: German, English if agreed upon with the examiner Where applicable, prerequisites as specified by the lecturer at the beginning of the course (e. g. completion of exercises).					
	other prerequis	sites	Where	e applicable, prereq	uisites as specified by	the lecturer at the beginnin	g of the course (e	. g. completion of exercises).
Chemistry								
08-SAM-092-m01	Technology of	Sensor a	nd Acto	or Materials includi	ng Smart Fluids			
	ECTS 5 Duration			1 semester	Method of grading r		Modul level	graduate
	Courses					ours) and course language a	available)	
	Method of assessment written examination (90 minutes)							

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08-EEW-101-m01	Electrochemical Energy Storage and Conversion								
00-2200-101-1101								ave due to	
	ECTS 5	Duratio		1 semester			Modul level	graduate	
	Courses		V + P	V + P + E (no information on SWS (weekly contact hours) and course language available)					
	Method o	Method of assessment written examination (90 minutes) and lab report (approx. 5 pages)							
11-EXNP6-112-m01	Non-Physical Minor Subject								
	ECTS 6 Duration		on	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses V		V + R	V + R (no information on SWS (weekly contact hours) and course language available)					
	Method o	of assessment	prox. on/se	a) written examination (approx. 120 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) Language of assessment: German, English					
	other prerequisites		Appro	Approval by examination committee required.					
08-PCM4-PHY-111-	Ultrafast Spectroscopy and Quantum Control								
m01	ECTS 5 Duration		on	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses			S + Ü (no information on SWS (weekly contact hours) and course language available)					
	Method o	ofassessment		written examination (90 minutes) or oral examination of one candidate each (20 minutes) or talk (30 minutes) Language of assessment: German or English					
08-MW-PHY-111-	Structure and Properties of Modern Materials: Experiments and Simulations								
m01	ECTS 5	Durati	on	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses	·	V + S	V + S (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment talk (approx. 45 minutes)								
Thesis (30 ECTS credits)									
11-MA-P-111-m01	Master Thesis Physics								
	ECTS 3	o Durati	on	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses		no co	urses assigned					
	Method of assessment		writte	written thesis					
			Lang	lage of assessment	: German, English				