



## **Annex SFB**

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

Responsible: Faculty of Physics and Astronomy Examination regulations version: 2010 Abbreviations used: Course types:  $\mathbf{E} = \text{field trip}$ ,  $\mathbf{K} = \text{colloquium}$ ,  $\mathbf{O} = \text{conversatorium}$ ,  $\mathbf{P} = \text{placement/lab course}$ ,  $\mathbf{R} = \text{project}$ ,  $\mathbf{S} = \text{seminar}$ ,  $\mathbf{T} = \text{tutorial}$ ,  $\mathbf{\ddot{U}} = \text{exercise}$ ,  $\mathbf{V}$ = 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) Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not cre-Conventions for the modules in this SFB: ditable for bonus. Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the me-Information on 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 assessment procedures: customary manner. Should a module comprise more than one graded assessment, all assessments will be equally weighted, unless otherwise stated below. Should the assessment comprise several individual assessments, successful completion of the module will require successful completion of all individual assessments.

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

#### ASPO2007

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

### 21-Sep-2010 (2010-62)

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

Every module will be described using the following form:

Abbreviation	Module title										
	ECTS		Duration	(in semesters)	Method of grading		Module level				
	Courses		To be spe	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		Il if applica	applicable							
	Other prereq	uisites	if applica	if applicable							
	Participants on of places		ocati- if applica	fapplicable							
	Additional in	formati	on if applica	if applicable							
	Referred to in	n LPO I	if applica	ble (examination re	gulations for teaching	g-degree programmes)					

Compulsory Course	es (46 EC	TS credit	ts)								
11-PFM-072-m01	Advance	ed Practi	cal Cour	se Mast	er						
	ECTS	6	Duratior	1	semester	Method of grading	(not) successf	ully completed	Modul level	graduate	
	Courses	5		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							
	Method	of asses	ssment	<ul> <li>This module has the following assessment components</li> <li>1. Lab course in part 1 (Fortgeschrittenen-Praktikum Master/Advanced Practical Course Master Part 1): a) Preparing the experiment will be considered successfully completed if an oral test (approx. 30 minutes) is passed prior to the experiment. b) Performing and evaluating the experiment will be considered successfully completed if a test is passed. Students must prepare an experiment log (approx. 8 pages).</li> <li>2. Lab course in part 2 (Fortgeschrittenen-Praktikum Master/Advanced Practical Course Master Part 2): a) Preparing the experiment will be considered successfully completed if a test is passed prior to the experiment. b) Performing and evaluating the experiment will be considered successfully completed if a test is passed prior to the experiment. b) Performing and evaluating the experiment will be considered successfully completed if a test is passed. Students must prepare an experiment log (approx. 8 pages).</li> <li>Language of assessment: German or English Students must register for assessment components 1 and 2 online (details to be announced). Students will be offered one opportunity to retake element a) and/or element b) in the respective semester. To pass an assessment component, they must pass both elements (a and b) in the same semester. To pass an assessment component 2.</li> </ul>							
	Module: complet	s succes ted	sfully	11-E1, 11	11-E1, 11-E2						
	other pr	rerequisi	tes	11-A3							
11-FPN-072-m01	<b>FOKUS</b>	Project P	ractical	Course Nanostructuring Technology							
	ECTS	10	Duratior	۱ 1	semester	Method of grading	numerical grad	de	Modul level	graduate	
	Courses	5		P (no int	formation on SWS	(weekly contact ho	urs) and course	language avail	able)		
	Method	ofasses	ssment	a) proje	ct report (approx.	20 pages) and b) ta	lk (approx. 30 m	inutes) with di	scussion on top	ic researched in project	
11-FS-NF-072-m01	Profess	ional Sp	ecializat	ion FOK	US Nanostructurir	ng Technology 1					
	ECTS	15	Duratior	1	semester	Method of grading	numerical grad	de	Modul level	graduate	
	Courses	5		S (no in	formation on SWS	(weekly contact ho	urs) and course	language avail	able)		
	Method	ofasses	sment	talk (ap	talk (approx. 30 to 45 minutes) with discussion						
11-MP-NF-072-m01	Scientif	fic Metho	ds and	Project N	Aanagement FOKL	JS Nanostructuring	Technology 1				
	ECTS	15	Duratior	ı 1	semester	Method of grading	numerical grad	de	Modul level	graduate	
	Courses	5		R (no in	formation on SWS	(weekly contact ho	urs) and course	language avail	able)		
	Method	ofasses	ssment	talk (ap	prox. 30 to 45 min	utes) with discussion	on				

Compulsory Electives (44 ECTS credits)													
Compulsory Electives Nanomatrix (12 ECTS credits)         o8-NM-AW-       Nanomatrix Inorganic Materials Chemistry (Master)													
o8-NM-AW-	Nanomatrix In	organic N	Naterials Chemistry (Ma	ster)									
MA-072-m01	ECTS 6	Duratio	n 1 semester	Method of grading	numerical grade	Modul level	graduate						
	Courses		V + R (no information o	n SWS (weekly contact	hours) and course language av	ailable)							
	Method of ass	essment					ation of one candidate each or						
					es) or d) project report (approx.	10 pages)							
08-NM-NS- MA-072-m01			and Structuring Techno				1						
MA-0/2-1101	ECTS 6	Duratio		Method of grading	)	Modul level	graduate						
	Courses		`		hours) and course language av	·							
	Method of ass	ethod of assessment a) written examination (approx. 90 minutes) or b) talk (approx. 30 minutes) or c) oral examination of one candidate each or											
11-NM-WP-	Nanomatrix He	oral examination in groups (approx. 30 minutes) or d) project report (approx. 10 pages) Nanomatrix Heat Insulating Systems and Photovoltaics											
MA-072-m01	ECTS 6 Duration 1 semester Method of grading numerical grade Modul level graduate												
	Courses	Duration			hours) and course language av		Siddute						
	Method of ass	essment				-	ation of one candidate each or						
	method of door	cooniene			es) or d) project report (approx.								
11-NM-HM-	Nanomatrix Se	emicondu	ctor Materials (Master)										
MA-072-m01	ECTS 6	Duratio	n 1 semester	Method of grading	numerical grade	Modul level	graduate						
	Courses		V + R (no information o	n SWS (weekly contact	hours) and course language av	ailable)							
	Method of ass	essment					ation of one candidate each or						
				1 11 2	es) or d) project report (approx.	10 pages)							
11-NM-HP-MA-072-			ctor Processing (Master			1							
m01	ECTS 6	Duratio		Method of grading	_	Modul level	graduate						
	Courses				hours) and course language av	-							
	Method of ass	essment			r b) talk (approx. 30 minutes) o es) or d) project report (approx.		ation of one candidate each or						
11-NM-MB-	Nanomatrix Mi	icro/Nanc	o- and Optoelectronic De		s) of u) project report (approx.	10 pages)							
MA-072-m01	ECTS 6	Duratio		Method of grading	numerical grade	Modul level	graduate						
,	Courses	Duratio			hours) and course language av	1	Siduate						
	Method of ass	ecoment		· · ·			ation of one candidate each or						
	Method of assessment a) written examination (approx. 90 minutes) or b) talk (approx. 30 minutes) or c) oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or d) project report (approx. 10 pages)												
o3-NM-BW-	Nanomatrix Bi	omedical	Materials (Master)										
MA-072-m01	ECTS 6	Duratio	n 1 semester	Method of grading	numerical grade	Modul level	graduate						
	Courses	<u>.</u>	V + R (no information o	n SWS (weekly contact	hours) and course language av	ailable)							
	Method of ass	essment					ation of one candidate each or						
	oral examination in groups (approx. 30 minutes) or d) project report (approx. 10 pages)												
Master's with 1 major FO	KUS Physics - Nanostru	ucturing Techi	nology (2010)		JMU Würzburg • generated 26-Aug-20	24 • exam. reg. data ı	record 88 e06 - - H 2010 page 4 / 51						

07-NM-BS-	Nanomatrix Biocompatible Structuring Technologies (Master)											
MA-072-m01	ECTS 6	Duratio	า	1 semester	Method of grading	numerical grade		Modul level	graduate			
	Courses			<u>.</u>	. ,	t hours) and course lan	0 0	,				
	Method of as	ssessment		) written examination (approx. 90 minutes) or b) talk (approx. 30 minutes) or c) oral examination of one candidate each or								
				oral examination in groups (approx. 30 minutes) or d) project report (approx. 10 pages) Analyzing Systems and Processes (Master)								
11-NM-BV-MA-072-												
	ECTS 6	Duratio		1 semester	-	numerical grade	l	Modul level	graduate			
	Courses			+ R (no information on SWS (weekly contact hours) and course language available)								
	Method of as	ssessment		written examination (approx. 90 minutes) or b) talk (approx. 30 minutes) or c) oral examination of one candidate each or al examination in groups (approx. 30 minutes) or d) project report (approx. 10 pages)								
<b>Compulsory Electiv</b>	es Specialisa	tion Nanos	ructur	e Technology (10 I	ECTS credits)							
<b>Applied Physics an</b>	d Metrology (	(10 ECTS cre	dits)									
11-MOE-092-m01	Opto-electro	onic Materia	l Prope	erties								
	ECTS 5	Duratio	1	1 semester	Method of grading	g numerical grade		Modul level	graduate			
	Courses		V + Ü	(no information or	n SWS (weekly contac	t hours) and course lan	nguage ava	ilable)				
	Method of as	ssessment		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	e: 1 to 4 weeks) or d)	presentation/seminar p	presentatio	on (approx. 30	minutes)			
	other prereq	uisites	to qua cours obtair for as	alify for admission e. Registration for ned the qualificati sessment into effe	to assessment. The l the course will be co on for admission to a ect. Students who me	ecturer will inform stud nsidered a declaration of ssessment over the cou et all prerequisites will	lents abou of will to se urse of the be admitte	t the respectiv eek admission semester, the ed to assessm	Certain prerequisites must be met re 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-			
11-0HL-092-m01	Organic Sem	niconductor										
	ECTS 5	Duratio	1	1 semester	Method of grading	g numerical grade		Modul level	graduate			
	Courses				. ,	t hours) and course lan						
	Method of as		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 prereq	uisites	to qua cours obtair for as	alify for admission e. Registration for ned the qualificati sessment into effe	to assessment. The l the course will be co on for admission to a ect. Students who me	ecturer will inform stud nsidered a declaration o ssessment over the cou et all prerequisites will	lents abou of will to se urse of the be admitte	t the respectiv eek admission semester, the ed to assessm	Certain prerequisites must be met re 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-			

Master's with 1 major FOKUS Physics - Nanostructuring Technology (2010)	

11-A2-081-m01	Electro	nics	1									
	ECTS	6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	S		V + Ü	(no information on	SWS (weekly contact	t hours) and course language a	available)				
	Method	l of ass	essment	writte	written examination (approx. 90 minutes)							
11-ASI-092-m01	Reprod	ucing S	Sensors in	Infrar	nfrared							
	ECTS	3	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	S		V + R	(no information on	SWS (weekly contact	t hours) and course language a	vailable)				
	Method	1 01 855	essment	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 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-ASL-092-m01	Applied	l Super	conductio	on								
	ECTS	6	Duratio		1 semester	Method of grading		Modul level	graduate			
	Courses	-		R + V (no information on SWS (weekly contact hours) and course language available)								
	Method	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 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: once a year, winter semester Language of assessment: German, English								
	other p	rerequi	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-EBV-092-m01	Princip	les of Ir	nage Proce	ssing	5							
	ECTS	3	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	s	١	/ + R (	no information on	SWS (weekly contact	hours) and course language av	ailable)				
	Methoo	l of asso	r t r 2	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English								
	other p	orerequi	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-ENT-092-m01	Principles of Energy Technologies											
	ECTS	6	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S	F	R + Λ (	no information on	SWS (weekly contact	hours) and course language av	ailable)				
	Methoo	l of ass	r 2	orox. 3 0 10 p Assess 10unc 2009.	30 minutes per car bages, time to com sment offered: Wh red in due form und	ndidate, for modules w 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 (appro» Is on the metho	d of assessment and will be an-			
	other p	prerequi	t c t s	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-EPP-092-m01	Introduction to	Plasmaphysic	S									
	ECTS 6	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses	V + R	(no information on	SWS (weekly contact	hours) and course language 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 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-HLF-092-m01	Semiconductor Lasers - Principles and Current Research											
	ECTS 6	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses	R + V	(no information on	SWS (weekly contact	hours) and course language av	vailable)						
	Method of asse	prox. to 10 Asses noun 2009	30 minutes per can pages, time to com ssment offered: Who ced in due form unc	didate, for modules v olete: 1 to 4 weeks) of en and how often ass ler observance of Sec	vith less than 4 ECTS credits ap r d) presentation/seminar pres	pprox. 20 minute entation (approx ds on the metho	d of assessment and will be an-					
	other prerequis	tive d on to the le sessr	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-KVM-092-m01	Principles of Classification of Patterns													
	ECTS 3 D	uration 1 semester Method of grading numerical grade Modul level undergraduate												
	Courses	V + R (no information on SWS (weekly contact hours) and course language available)												
	Method of assess	a) written examination (90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 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 prerequisite	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-LVW-092-m01	Introduction to La	bVIEW												
	ECTS 6 D	uration 1 semester Method of grading numerical grade Modul level graduate												
	Courses	V + Ü (no information on SWS (weekly contact hours) and course language available)												
	Method of assess	<ul> <li>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) or e) project (approx. 60 minutes)</li> <li>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.</li> <li>Language of assessment: German, English</li> </ul>												
	other prerequisite	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	Thermodynamics and Economics												
	ECTS	6	Duratio	n	1 semester	Method of grading numerical gra	ade	Modul level	graduate					
	Course	!S		R + V	(no information o	on SWS (weekly contact hours) and co	urse language av	/ailable)						
	Metho	d of ass	essment	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 p	orerequi	sites	tive d on to the le sessn	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the 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.									
Solid State Physics	s and Na	nostruc	tures (10	ECTS o	redits)									
11-MOE-092-m01	Opto-e	lectron	ic Materia	al Properties										
	ECTS	5	Duration	n	1 semester	Method of grading numerical gra	ade	Modul level	graduate					
	Course	!S		V + Ü (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. 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes)										
	other p	prerequi	sites	to qua cours obtain for as	alify for admission e. Registration for ned the qualificat sessment into eff	e to assessment: successful completion n to assessment. The lecturer will info r the course will be considered a decla tion for admission to assessment over fect. Students who meet all prerequisi assessment at a later date, students wil	orm students abo aration of will to the course of th ites will be admit	ut the respective seek admission e semester, the tted to assessme	e details at the beginning of the to assessment. If students have lecturer will put their registration ent in the current or in the subse-					

11-ASL-092-m01	Applie	d Super	conductio	n							
	ECTS	6	Duratio	1	1 semester	Method of grading numerical grade	Modul leve	l graduate			
	Course	S		R + V	(no information o	on SWS (weekly contact hours) and course lan	nguage available)				
	Metho	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 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	orerequi	sites	tive d on to the le sessn	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the 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-HLF-092-m01	Semiconductor Lasers - Principles and Current Research										
	ECTS	6	Duratio	n	1 semester	Method of grading numerical grade	Modul leve	l graduate			
	Course	:S		R + V	R + V (no information on SWS (weekly contact hours) and course language available)						
	Metho	d of ass	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	orerequi	sites	tive d on to the le sessn	letails at the begin assessment. If st ecturer will put the nent in the curren	nust be met to qualify for admission to assess nning of the course. Registration for the cours tudents have obtained the qualification for ad eir registration for assessment into effect. Stu nt or in the subsequent semester. For assessm to assessment anew.	se will be considered a Imission to assessme Idents who meet all pl	a declaration of will to seek admissi- nt over the course of the semester, erequisites will be admitted to as-			

11-AHL-092-m01	Applied	Semic	onductor F	Physic	S							
	ECTS	6	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	s		R + V (	(no information on S	SWS (weekly contact	hours) and course language a	vailable)				
	Methoc	l of asse		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 p	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-FK2-092-m01	Solid State Physics 2											
	ECTS	8	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 available)								
	Methoc	l of asse		prox. to 10 p Asses nounc 2009.	30 minutes per cano bages, time to comp sment offered: Whe din due form und	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 ap r d) presentation/seminar pres	oprox. 20 minute sentation (appro ds on the metho	d of assessment and will be an-			
	other p	rerequis		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-FKS-092-m01	Solid State Spectroscopy												
	ECTS	6	Duratior	۱	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 ass		prox. to 10 j 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 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-FKT-092-m01	Transport Phenomena in Solids												
	ECTS	6	Duratior	I	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	vailable)					
	Methoo	d of asso		prox. to 10   Asses nounc 2009.	30 minutes per car pages, 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 assi der observance of Sec	vith less than 4 ECTS credits ap r d) presentation/seminar pres	prox. 20 minute entation (appro ds on the metho	d of assessment and will be an-				
	other p	rerequi		Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the 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	Semicondu	tor Physics										
	ECTS 6	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 of a	ssessment	prox. to 10 Asses nound 2009.	Language of assessment: German, English								
	other prerec	juisites	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-HNS-092-m01	Semiconductor Nanostructures											
	ECTS 6	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 a	ssessment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in grou 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 regulati 2009. Language of assessment: German, English									
	other prerec	juisites	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-LHQ-092-m01	Lithogr	raphy in	Semicondu	uctor	Technology and 1	Theory of Quantum Transport						
	ECTS	6	Duration		1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	s	R	R + V (no information on SWS (weekly contact hours) and course language available)								
	Method	l of asse	p to A n 2	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English								
	other p	prerequis	ti o tl 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-MAG-092-m01	Magnetism											
	ECTS	6	Duration		1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S	R	2 + V (	no information or	n SWS (weekly contact hours) and course language	e available)					
	Method	l of asse	p to A n 2	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups prox. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approt to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations 2009. Language of assessment: German, English								
	other p	prerequis	ti o tl 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-MST-092-m01	Magne	tism an	d Spin Tra	nspor	t							
	ECTS	6	Duration	1	2 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V + R -	V + R + V (no information on SWS (weekly contact hours) and course language available)							
	Methoo	d of asse		prox. ( to 10 p Asses nounc 2009.	) 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) (approx. 30 minutes) (approx. 30 minutes) (approx. 40 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) (approx. 30 minutes) (approx. 40 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) (approx. 30 minutes) (approx. 40 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) (approx. 30 minutes) (approx. 40 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) (approx. 30 minutes) (approx. 40 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) (approx. 30 minutes) (approx. 30 minutes) (approx. 40 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) (approx. 30 minutes) (approx. 40 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 40 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) (approx. 40 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 40 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 40 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 40 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 40 pages, time to complete: 1 to 4 weeks) or d) presentation (approx. 40 pages, time to complete: 1 to 4 weeks) or d) presentation (approx. 40 pages, time to complete: 1 to 4 weeks) or d) presentation (approx. 40 pages, time to complete: 1 to 4 weeks) or d							
	other p	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-NAN-092-m01	Nanoanalytics											
	ECTS 6 Duratio			1	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 a	vailable)				
	Methoo	d of asse		prox. to 10 p Asses nounc 2009.	30 minutes per cano 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 asse er observance of Sect	vith less than 4 ECTS credits a r d) presentation/seminar pres	pprox. 20 minute sentation (appro: ids on the metho	d of assessment and will be an-			
	other p	rerequis		Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the 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	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S	R +	R + V (no information on SWS (weekly contact hours) and course language available)								
	Methoo	d of asse	pro to 1 Ass not 200	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009.								
	other p	rerequis	tive on the ses	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-NEL-092-m01	Nanoelectronics											
	ECTS	6	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S	R +	V (no information on S	WS (weekly contact	hours) and course language av	ailable)					
	Methoo	d of asse	pro to 1 Ass not 200	x. 30 minutes per cano to pages, time to comp sessment offered: Whe unced in due form und	lidate, for modules w lete: 1 to 4 weeks) of 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 Is on the metho	d of assessment and will be an-				
	other p	rerequis	tive on the ses	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-NOP-092-m01	Nano-O	ptics										
	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)							
	Methoc	l of asse		prox. ( to 10 ) Asses nound 2009.	anguage of assessment: German, English							
	other p	rerequis		Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the 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-QM2-092-m01	Quantum Mechanics II											
	ECTS 8 Duratio			1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		R + V (	(no information on	SWS (weekly contact	hours) and course language a	available)				
	Methoc	l of asse		prox. to 10 J Asses nounc 2009.	30 minutes per can pages, time to com sment offered: Wh ced in due form und	didate, for modules v plete: 1 to 4 weeks) o en and how often ass der 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) d of assessment and will be an- and examination regulations)			
	other p	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-QPM-092-m01	Quantum Pher	nomena in elect	ronic correlated Mat	erials								
	ECTS 6	Duration	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 of ass	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 prerequi	tive on to the less	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	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 ass	prox. to 10 Asse noun 2009	30 minutes per can pages, time to comp ssment offered: Whe ced in due form und	didate, for modules w olete: 1 to 4 weeks) of n and how often ass 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 prerequi	tive of on to the le session	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-RMS-092-m01	Relativi	stic Effe	cts in Mesos	copic Systems								
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	5	R + '	R + V (no information on SWS (weekly contact hours) and course language available)								
	Method	of asses	prox to 10 Asso nou 200	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English								
	other pr	rerequisi	tive on t the 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-TFK-092-m01	Theoretical Solid State Physics											
	ECTS	8	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	5	R + '	/ (no information on	SWS (weekly contact	hours) and course language a	vailable)					
	Method	of asses	prox to 10 Asso nou 200	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups prox. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approt to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulation 2009. Language of assessment: German, English								
	other pr	rerequisi	tive on t the 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-TSL-092-m01	Theory	of Supe	erconduct	ion								
	ECTS	5	Duratior	ו	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses	5		R + V	(no information o	n SWS (weekly contact hours) and course la	nguage available)					
	Method	l of ass	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 prerequisites			tive de on to the le sessm	etails at the begin assessment. If stu cturer will put the nent in the current	nust be met to qualify for admission to assest nning of the course. Registration for the cour udents have obtained the qualification for a ir registration for assessment into effect. Stu t or in the subsequent semester. For assess o assessment anew.	rse will be considered a c dmission to assessment udents who meet all prei	declaration of will to seek admissi- over the course of the semester, requisites will be admitted to as-				
Complex Systems,	Quantum Control and Biophysics (10 ECTS credits)											
11-NOP-092-m01	Nano-Optics											
	ECTS	4	Duration		1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses	-				n SWS (weekly contact hours) and course la	<u> </u>					
	Method	l of ass	essment	prox. to 10 Asses nound 2009.	30 minutes per ca pages, time to cor sment offered: W ced in due form ur	(approx. 90 minutes) or b) oral examination andidate, for modules with less than 4 ECTS mplete: 1 to 4 weeks) or d) presentation/sen hen and how often assessment will be offer nder observance of Section 32 Subsection 3 nt: German, English	credits approx. 20 minu ninar presentation (appr ed depends on the meth	tes) or c) project report (approx. 8 ox. 30 minutes) od 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-BMT-092-m01	Biophy	sical M	easuremen	t Tech	nnology in Medical	Science						
	ECTS	6	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S	F	R + V (no information on SWS (weekly contact hours) and course language available)								
	Methoo	d of asse	r 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) - anguage of assessment: German, English								
	other p	prerequis	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-LMB-092-m01	Laboratory and Measurement Technology in Biophysics											
	ECTS	6	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	!S	F	R + V (	no information on	SWS (weekly contact	hours) and course language av	ailable)				
	Methoo	d of asse	F t r z	prox. 3 to 10 p Assess nounce 2009.	go minutes per can bages, time to comp sment offered: Whe ed in due form und	didate, for modules w plete: 1 to 4 weeks) or en and how often asso ler observance of Sec	vith less than 4 ECTS credits ap r d) presentation/seminar prese	prox. 20 minute entation (approx Is on the method	d of assessment and will be an-			
	other p	prerequis	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-PKS-092-m01	Physics of Complex Systems											
	ECTS	6	Duration	1	semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	s	F	R + V (no information on SWS (weekly contact hours) and course language available)								
	Methoc	l of asse	r 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) Language of assessment: German, English								
	other p	rerequis	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-QIC-092-m01	Quantum Information and Quantum Computing											
	ECTS	5	Duration	1	semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S	ŀ	R + V (n	o information on S	SWS (weekly contact	hours) and course language	e available)				
	Methoc	l of asse	F t r 2	prox. 30 to 10 pa Assessr nounce 2009.	o minutes per cano ges, time to comp nent offered: Whe	didate, for modules w olete: 1 to 4 weeks) of n and how often ass er observance of Sec	vith less than 4 ECTS credits r d) presentation/seminar p 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) d of assessment and will be an- and examination regulations)			
	other p	rerequis	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-SDC-092-m01	Statistics, Data Analysis and Computer Physics												
	ECTS	4	Duratior	1	1 semester	Method of grading	numerical grade		Modul level	graduate			
	Courses			R + V	no information or	SWS (weekly contact	hours) and course l	language ava	ilable)	,			
	Method	of asse	essment	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	erequis	sites	tive d on to the le sessn	etails at the begin assessment. If stu cturer will put thei nent in the current	ning of the course. Rea idents have obtained t ir registration for asses	ristration for the cou he qualification for sment into effect. S	urse will be co admission to Students who	onsidered a d assessment 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-			
Other Modules Spe	ecialisatio	on (10 E	CTS cred	its)									
11-SF-4E-072-m01	Module Type 4E Special Training Experimental Physics												
	ECTS /	4	Duration	1	1 semester	Method of grading	numerical grade		Modul level	graduate			
	Courses			V + R (no information on SWS (weekly contact hours) and course language available)									
	Method	of asse	essment		a) written examination (approx. 90 minutes) or b) talk (approx. 30 minutes) or c) oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or d) project report (approx. 8 pages)								
11-SF-4l-072-m01	Module	Type 4	4I Special Training Interdisciplinary Research Fields										
	ECTS A	4	Duratior	ı	1 semester	Method of grading	numerical grade		Modul level	graduate			
	Courses			V + R	(no information or	SWS (weekly contact	hours) and course l	language ava	ilable)				
	Method	of asse	essment			(approx. 90 minutes) o ups (approx. 30 minute				nation of one candidate each or			
11-SF-4T-072-m01	Module	Type 4	T Special	Traini	ng Theoretical Phy	ysics							
	ECTS 4	4	Duratior	า	1 semester	Method of grading	numerical grade		Modul level	graduate			
	Courses			V + R	no information or	SWS (weekly contact	hours) and course l	language ava	ilable)	·			
	Method	of asse	essment			(approx. 90 minutes) o ups (approx. 30 minute				nation of one candidate each or			
11-SF-5E-072-m01	Module	Type 5	E Special	Traini	ng Experimental P	hysics							
	ECTS .	5	Duration	ı	1 semester	Method of grading	numerical grade		Modul level	graduate			
	Courses			V + R (no information on SWS (weekly contact hours) and course language available)									
	Method of assessment			a) written examination (approx. 90 minutes) or b) talk (approx. 30 minutes) or c) oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or d) project report (approx. 10 pages)									

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11-SF-5l-072-m01	Module Ty	pe 5l Special	Training	g Interdisciplina	y Research Fields				
	ECTS 5	Duratio	n 1	1 semester	Method of grading numerical grade	Modul level	graduate		
	Courses		V + R (n	V + R (no information on SWS (weekly contact hours) and course language available)					
	Method of	assessment			(approx. 90 minutes) or b) talk (approx. 30 r ups (approx. 30 minutes) or d) project repor		nation of one candidate each or		
11-SF-5T-072-m01	Module Ty	pe 5T Special	l Training	aining Theoretical Physics					
	ECTS 5	Duratio	n 1	1 semester	Method of grading numerical grade	Modul level	graduate		
	Courses				n SWS (weekly contact hours) and course la	<u> </u>			
	Method of	assessment	a) writt oral exa	en examination amination in gro	approx. 90 minutes) or b) talk (approx. 30 r ups (approx. 30 minutes) or d) project repor	minutes) or c) oral examir t (approx. 10 pages)	nation of one candidate each or		
11-SF-6E-072-m01	Module Ty	pe 6E Specia	l Training	g Experimental F	hysics				
	ECTS 6	Duratio	n 1	1 semester	Method of grading numerical grade	Modul level	graduate		
	Courses				n SWS (weekly contact hours) and course la	<u> </u>			
	Method of	assessment		written examination (approx. 90 minutes) or b) talk (approx. 30 minutes) or c) oral examination of one candidate each or al examination in groups (approx. 30 minutes) or d) project report (approx. 12 pages)					
11-SF-6l-072-m01	Module Ty	pe 6I Special	Training	raining Interdisciplinary Research Fields					
	ECTS 6 Duratio		n 1	1 semester	Method of grading numerical grade	Modul level	graduate		
	Courses				n SWS (weekly contact hours) and course la	<u> </u>			
	Method of	assessment	a) writt oral exa	a) written examination (approx. 90 minutes) or b) talk (approx. 30 minutes) or c) oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or d) project report (approx. 12 pages)					
11-SF-6T-072-m01	Module Ty	pe 6T Specia	l Training	g Theoretical Ph	ysics				
	ECTS 6	Duratio	n 1	1 semester	Method of grading numerical grade	Modul level	graduate		
	Courses				n SWS (weekly contact hours) and course la	• •			
	Method of	assessment		a) written examination (approx. 90 minutes) or b) talk (approx. 30 minutes) or c) oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or d) project report (approx. 12 pages)					
11-SF-8E-072-m01		pe 8E Specia	l Trainin	g Experimental F	Physics				
	ECTS 8	Duratio	n 1	1 semester	Method of grading numerical grade	Modul level	graduate		
	Courses				n SWS (weekly contact hours) and course la	• •			
	Method of	assessment		a) written examination (approx. 90 minutes) or b) talk (approx. 30 minutes) or c) oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or d) project report (approx. 16 pages)					
11-SF-8l-072-m01	Module Ty	pe 8I Special	Training	g Interdisciplina	y Research Fields				
	ECTS 8	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate		
	Courses		<u>`</u>		n SWS (weekly contact hours) and course la				
	Method of	assessment			approx. 90 minutes) or b) talk (approx. 30 r ups (approx. 30 minutes) or d) project repor		nation of one candidate each or		

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11-SF-8T-072-m01	Module Type 8	T Special Train	ing Theoretical Phy	/sics						
	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	ailable)				
	Method of asse		) written examination (approx. 90 minutes) or b) talk (approx. 30 minutes) or c) oral examination of one candidate each or ral examination in groups (approx. 30 minutes) or d) project report (approx. 16 pages)							
11-SF-4N-072-m01	Module Type 4	N Special Trair	ing Nanostructure	Technology						
	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	ailable)				
	Method of asse		written examination (approx. 90 minutes) or b) talk (approx. 30 minutes) or c) oral examination of one candidate each or Il examination in groups (approx. 30 minutes) or d) project report (approx. 8 pages)							
11-SF-5N-072-m01	Module Type 5	odule Type 5N Special Training Nanostructure Technology								
	ECTS 5	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	ailable)				
	Method of asse		a) written examination (approx. 90 minutes) or b) talk (approx. 30 minutes) or c) oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or d) project report (approx. 10 pages)							
11-SF-6N-072-m01	Module Type 6	N Special Trair	l Training Nanostructure Technology							
	ECTS 6	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	V + R	(no information on	SWS (weekly contact	hours) and course language av	ailable)				
	Method of asse		a) written examination (approx. 90 minutes) or b) talk (approx. 30 minutes) or c) oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or d) project report (approx. 12 pages)							
11-SF-8N-072-m01	Module Type 8	N Special Trair	ing Nanostructure	Technology						
	ECTS 8	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V + R (no information on SWS (weekly contact hours) and course language available)							
	Method of asse				r b) talk (approx. 30 minutes) o es) or d) project report (approx.		ation of one candidate each or			

Research Modules	s Nanosti	ructure <sup>·</sup>	Fechnolog	<b>3y (16</b>	ECTS credits)						
11-FM-VK8E-072-	FOKUS	Resear	ch Module	е Туре	VK8E Experimenta	l Physics					
m01	ECTS	8	Duratior	ı	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	25		FOKUS Einführungsmodul Experimentelle Physik (FOKUS Introductory Module Experimental Physics): V (2 weekly contact hours) + Ü/P (1 weekly contact hour), details on availability to be announced FOKUS Kompaktseminar Experimentelle Physik (FOKUS Block Taught Seminar Experimental Physics): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during seme- ster break)							
	Metho	d of ass	essment	<ul> <li>This module has the following assessment components</li> <li>1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages)</li> <li>2. Seminar: talk (approx. 30 to 45 minutes)</li> <li>Assessment components 1 and 2 will be offered in German or English.</li> <li>Students must register for assessment components 1 and 2 online (details to be announced).</li> <li>Details on when assessment components 1 and 2 will be offered to be announced.</li> <li>To pass this module, students must pass both assessment component 1 and assessment component 2.</li> </ul>							
11-FM-VK8I-072-	FOKUS Research Module Type VK8I Interdisciplinary Research Fields										
m01	ECTS	8	Duratior	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			FOKUS Einführungsmodul Interdisziplinäre Fachgebiete (FOKUS Introductory Module Interdisciplinary Research Fields): V (2 weekly contact hours) + Ü/P (1 weekly contact hour), details on availability to be announced FOKUS Kompaktseminar Interdisziplinäre Fachgebiete (FOKUS Block Taught Seminar Interdisciplinary Research Fields): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break)							
	Method of assessment			<ul> <li>This module has the following assessment components</li> <li>1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages)</li> <li>2. Seminar: talk (approx. 30 to 45 minutes)</li> </ul>							
				Assessment components 1 and 2 will be offered in German or English. Students must register for assessment components 1 and 2 online (details to be announced). Details on when assessment components 1 and 2 will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.							

11-FM-VK8T-072-	FOKUS	Resea	rch Modul	e Type VK8T Theoretical	Physics						
m01	ECTS	8	Duratior	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	25		Ü/P (1 weekly contact ho FOKUS Kompaktsemina	our), details on availat Theoretische Physik (	pility to be announced	r Theoretical Phys	ics): V (2 weekly contact hours) + ics): S (2 weekly contact hours), sually held during semester			
	Metho	d of ass	sessment	This module has the foll 1. Topics covered in lect amination of one can 2. Seminar: talk (approx	ures and exercises: wi didate each or oral exa	itten examination (approx. 9	o minutes) or talk 30 minutes) or pr	: (approx. 30 minutes) or oral ex- oject report (approx. 8 pages)			
				Assessment components 1 and 2 will be offered in German or English. Students must register for assessment components 1 and 2 online (details to be announced). Details on when assessment components 1 and 2 will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.							
11-FM-VK9E-072-	FOKUS Research Module Type VK9E Experimental Physics										
m01	ECTS	9	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			hours) + Ü/P (1 weekly c FOKUS Kompaktseminar	ontact hour), details o Experimentelle Physi		ed nar Experimental F	Physics): V (3 weekly contact Physics): S (2 weekly contact days), usually held during seme-			
	Method of assessment			<ol> <li>This module has the foll</li> <li>Topics covered in lect amination of one cand</li> <li>Seminar: talk (approx</li> </ol>	ures and exercises: wi didate each or oral exa	itten examination (approx. 9	o minutes) or talk 30 minutes) or pr	: (approx. 30 minutes) or oral ex- oject report (approx. 8 pages)			
				Details on when assess	or assessment compo nent components 1 an	ed in German or English. nents 1 and 2 online (details d 2 will be offered to be anno assessment component 1 ar	ounced.				

11-FM-VK9I-072-	FOKUS	OKUS Research Module Type VK9I Interdisciplinary Research Fields											
m01	ECTS	9	Duratior	1 semester	Method of grading numerical grade	Modul level	graduate						
	Course	S		FOKUS Einführungsmodul Interdisziplinäre Fachgebiete (FOKUS Introductory Module Interdisciplinary Research Fields): V (3 weekly contact hours) + Ü/P (1 weekly contact hour), details on availability to be announced FOKUS Kompaktseminar Interdisziplinäre Fachgebiete (FOKUS Block Taught Seminar Interdisciplinary Research Fields): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break)									
	Methoo	d of ass		1. Topics covered in lea	llowing assessment components ctures and exercises: written examination (app ndidate each or oral examination in groups (ap w. 30 to 45 minutes)	prox. 90 minutes) or talk pprox. 30 minutes) or pr	k (approx. 30 minutes) or oral ex- oject report (approx. 8 pages)						
				Assessment components 1 and 2 will be offered in German or English. Students must register for assessment components 1 and 2 online (details to be announced). Details on when assessment components 1 and 2 will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.									
11-FM-VK9T-072-	FOKUS Research Module Type VK9T Theoretical Physics												
m01	ECTS	9	Duratior	1 semester	Method of grading numerical grade	Modul level	graduate						
	Course	S		Ü/P (1 weekly contact h FOKUS Kompaktsemina	dul Theoretische Physik (FOKUS Introductory M nour), details on availability to be announced ar Theoretische Physik (FOKUS Block Taught Se ails on availability to be announced (block tau	eminar Theoretical Phys	sics): S (2 weekly contact hours),						
	Method of assessment			1. Topics covered in lea	llowing assessment components ctures and exercises: written examination (app ndidate each or oral examination in groups (ap x. 30 to 45 minutes)	prox. 90 minutes) or talk pprox. 30 minutes) or pr	k (approx. 30 minutes) or oral ex- roject report (approx. 8 pages)						
				Students must register Details on when asses	nts 1 and 2 will be offered in German or English for assessment components 1 and 2 online (do sment components 1 and 2 will be offered to be tudents must pass both assessment component	etails to be announced e announced.							

11-FM-VK10E-072-	FOKUS	Resear	ch Module	e Type VK10E Experimental Physics							
m01	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	S		FOKUS Einführungsmodul Experimentelle Physik (FOKUS Introductory Module Experimental Physics): V (3 weekly contact hours) + Ü/P (2 weekly contact hours), details on availability to be announced FOKUS Kompaktseminar Experimentelle Physik (FOKUS Block Taught Seminar Experimental Physics): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during seme- ster break)							
	Method of assessment			1. Topics covered in lea	ctures and exercises: wi ndidate each or oral exa	ritten examination (approx	k. 90 minutes) or talk ox. 30 minutes) or pr	s (approx. 30 minutes) or oral ex- oject report (approx. 8 pages)			
				Assessment components 1 and 2 will be offered in German or English. Students must register for assessment components 1 and 2 online (details to be announced). Details on when assessment components 1 and 2 will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.							
11-FM-VK10I-072-	FOKUS Research Module Type VK10I Interdisciplinary Research Fields										
m01	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			weekly contact hours) FOKUS Kompaktsemina	+ Ü/P (2 weekly contact ar Interdisziplinäre Fach German or English, det	: hours), details on availab ngebiete (FOKUS Block Tau	pility to be announce ught Seminar Interdis	sciplinary Research Fields): V (3 d sciplinary Research Fields): S (2 ght seminar (3 days), usually held			
	Method of assessment			1. Topics covered in lea	ctures and exercises: wi ndidate each or oral exa	ritten examination (approx		c (approx. 30 minutes) or oral ex- oject report (approx. 8 pages)			
				Students must register Details on when asses	for assessment compo sment components 1 ar	ed in German or English. nents 1 and 2 online (deta nd 2 will be offered to be a assessment component 1	nnounced.				

11-FM-VK10T-072-	FOKUS	Resea	rch Modul	e Type VK10T Theoretic	al Physics	-					
m01	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	25		FOKUS Einführungsmodul Theoretische Physik (FOKUS Introductory Module Theoretical Physics): V (3 weekly contact hours) + Ü/P (2 weekly contact hours), details on availability to be announced FOKUS Kompaktseminar Theoretische Physik (FOKUS Block Taught Seminar Theoretical Physics): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break)							
	Metho	d of ass	sessment	1. Topics covered in le	ndidate each or oral exa	ritten examination (approx. g	90 minutes) or talk . 30 minutes) or pr	a (approx. 30 minutes) or oral ex- oject report (approx. 8 pages)			
				Assessment components 1 and 2 will be offered in German or English. Students must register for assessment components 1 and 2 online (details to be announced). Details on when assessment components 1 and 2 will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.							
11-FM-VK12E-072-	FOKUS Research Module Type VK12E Experimental Physics										
m01	ECTS	12	Duration	n 1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	25		FOKUS Einführungsmodul Experimentelle Physik (FOKUS Introductory Module Experimental Physics): V (4 weekly contact hours) + Ü/P (2 weekly contact hours), details on availability to be announced FOKUS Kompaktseminar Experimentelle Physik (FOKUS Block Taught Seminar Experimental Physics): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during seme- ster break)							
	Method of assessment			1. Topics covered in le	ctures and exercises: wi ndidate each or oral exa	ritten examination (approx.	90 minutes) or talk . 30 minutes) or pr	: (approx. 30 minutes) or oral ex- oject report (approx. 8 pages)			
				Students must register Details on when asses	for assessment compo sment components 1 an	ed in German or English. nents 1 and 2 online (details nd 2 will be offered to be ann n assessment component 1 a	ounced.				

11-FM-VK12I-072-	FOKUS	Resea	rch Modul	e Type VK12l Interdisci	plinary Research Fields						
m01	ECTS	12	Duration	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	2S		weekly contact hours) FOKUS Kompaktsemir	odul Interdisziplinäre Fachgebiete (FOKUS Introdu + Ü/P (2 weekly contact hours), details on availal nar Interdisziplinäre Fachgebiete (FOKUS Block Tau , German or English, details on availability to be a ()	bility to be announce ught Seminar Interdis	d sciplinary Research Fields): S (2				
	Method of assessment			1. Topics covered in le	ollowing assessment components ectures and exercises: written examination (approx Indidate each or oral examination in groups (approx ox. 30 to 45 minutes)	x. 90 minutes) or talk ox. 30 minutes) or pr	x (approx. 30 minutes) or oral ex- oject report (approx. 8 pages)				
				Assessment components 1 and 2 will be offered in German or English. Students must register for assessment components 1 and 2 online (details to be announced). Details on when assessment components 1 and 2 will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.							
11-FM-VK12T-072-	FOKUS Research Module Type VK12T Theoretical Physics										
m01	ECTS	12	Duration	n 1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	25		Ü/P (2 weekly contact FOKUS Kompaktsemir	odul Theoretische Physik (FOKUS Introductory Moo hours), details on availability to be announced har Theoretische Physik (FOKUS Block Taught Sem tails on availability to be announced (block taugh	inar Theoretical Phys	sics): S (2 weekly contact hours),				
	Method of assessment			1. Topics covered in le	ollowing assessment components ectures and exercises: written examination (approx Indidate each or oral examination in groups (approx ox. 30 to 45 minutes)						
				Students must registe Details on when asses	nts 1 and 2 will be offered in German or English. r for assessment components 1 and 2 online (deta ssment components 1 and 2 will be offered to be a students must pass both assessment component	announced.					

11-FM-VM-	FOKUS	Resea	rch Module 1	Type VMK12E Experin	mental Physics						
K12E-072-m01	ECTS	12	Duration	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	25	h F h s F	ours) + Ü/P (1 weekly OKUS Kompaktsemir iours), German or Eng ter break) OKUS Miniforschung	odul Experimentelle Physik (FOKUS Introduct y contact hour), details on availability to be a nar Experimentelle Physik (FOKUS Block Taug glish, details on availability to be announced sprojekt Experimentelle Physik (FOKUS Mini glish, details on availability to be announced	nnounced ht Seminar Experimental (block taught seminar (3 Research Project Experim	Physics): S (2 weekly contact days), usually held during seme- ental Physics): P (2 weekly contact				
	Metho	d of ass	1 2 3 A S D	<ul> <li>This module has the following assessment components</li> <li>1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages)</li> <li>2. Seminar: talk (approx. 30 to 45 minutes)</li> <li>3. Research project: project report (approx. 8 pages)</li> <li>Assessment components 1 through 3 will be offered in German or English.</li> <li>Students must register for assessment components 1 through 3 online (details to be announced).</li> <li>Details on when assessment components 1 through 3 will be offered to be announced.</li> <li>To pass this module, students must pass each of the assessment components 1 through 3.</li> </ul>							
11-FM-VM-	FOKUS Research Module Type VMK12I Interdisciplinary Research Fields										
K12l-072-m01	ECTS	12	Duration	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	?S	w F w d F	<ul> <li>FOKUS Einführungsmodul Interdisziplinäre Fachgebiete (FOKUS Introductory Module Interdisciplinary Research Fields): V (2 weekly contact hours) + Ü/P (1 weekly contact hour), details on availability to be announced</li> <li>FOKUS Kompaktseminar Interdisziplinäre Fachgebiete (FOKUS Block Taught Seminar Interdisciplinary Research Fields): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break)</li> <li>FOKUS Miniforschungsprojekt Interdisziplinäre Fachgebiete (FOKUS Mini Research Project Interdisciplinary Research Fields): F (2 weekly contact hours), German or English, details on availability to be announced (approx. 3 weeks, part time)</li> </ul>							
	Metho	d of ass	1 2 3 A S D	<ul> <li>(2 weekly contact hours), German or English, details on availability to be announced (approx. 3 weeks, part time)</li> <li>This module has the following assessment components <ol> <li>Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages)</li> <li>Seminar: talk (approx. 30 to 45 minutes)</li> <li>Research project: project report (approx. 8 pages)</li> </ol> </li> <li>Assessment components 1 through 3 will be offered in German or English. Students must register for assessment components 1 through 3 online (details to be announced). Details on when assessment components 1 through 3 will be offered to be announced. To pass this module, students must pass each of the assessment components 1 through 3. </li> </ul>							

11-FM-VM-	FOKUS	Resear	rch Module	Type VKM12T Theore	tical Physics					
K12T-072-m01	ECTS	12	Duration	1 semester	Method of grading nur	nerical grade	Modul level	graduate		
	Course	S	(         	Ü/P (1 weekly contact FOKUS Kompaktsemir German or English, de break) FOKUS Miniforschung	hour), details on availability har Theoretische Physik (FOK tails on availability to be ann	to be announced US Block Taught Semir nounced (block taught c (FOKUS Mini Research	nar Theoretical Phys seminar (3 days), u n Project Theoretical	Physics): P (2 weekly contact		
				<ul> <li>This module has the following assessment components</li> <li>1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages)</li> <li>2. Seminar: talk (approx. 30 to 45 minutes)</li> <li>3. Research project: project report (approx. 8 pages)</li> <li>Assessment components 1 through 3 will be offered in German or English.</li> <li>Students must register for assessment components 1 through 3 online (details to be announced).</li> <li>Details on when assessment components 1 through 3 will be offered to be announced.</li> <li>To pass this module, students must pass each of the assessment components 1 through 3.</li> </ul>						
11-FM-VM-	FOKUS Research Module Type VMK13E Experimental Physics									
K13E-072-m01	ECTS	13	Duration	1 semester	Method of grading nur	nerical grade	Modul level	graduate		
	Course	S		<ul> <li>FOKUS Einführungsmodul Experimentelle Physik (FOKUS Introductory Module Experimental Physics): V (3 weekly contact hours) + Ü/P (1 weekly contact hour), details on availability to be announced</li> <li>FOKUS Kompaktseminar Experimentelle Physik (FOKUS Block Taught Seminar Experimental Physics): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break)</li> <li>FOKUS Miniforschungsprojekt Experimentelle Physik (FOKUS Mini Research Project Experimental Physics): P (2 weekly contact hours), German or English, details on availability to be announced (approx. 3 weeks, part time)</li> </ul>						
	Metho	d of ass								

11-FM-VM- K13I-072-m01	FOKUS Research Module Type VMK13I Interdisciplinary Research Fields										
	ECTS 13 Duration		Duration	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	25	v F v C F	FOKUS Einführungsmodul Interdisziplinäre Fachgebiete (FOKUS Introductory Module Interdisciplinary Research Fields): V (3 weekly contact hours) + Ü/P (1 weekly contact hour), details on availability to be announced FOKUS Kompaktseminar Interdisziplinäre Fachgebiete (FOKUS Block Taught Seminar Interdisciplinary Research Fields): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break) FOKUS Miniforschungsprojekt Interdisziplinäre Fachgebiete (FOKUS Mini Research Project Interdisciplinary Research Fields): P (2 weekly contact hours), German or English, details on availability to be announced (approx. 3 weeks, part time)							
	Method of assessment			<ul> <li>This module has the following assessment components</li> <li>1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages)</li> <li>2. Seminar: talk (approx. 30 to 45 minutes)</li> <li>3. Research project: project report (approx. 8 pages)</li> <li>Assessment components 1 through 3 will be offered in German or English.</li> <li>Students must register for assessment components 1 through 3 online (details to be announced).</li> <li>Details on when assessment components 1 through 3 will be offered to be announced.</li> <li>To pass this module, students must pass each of the assessment components 1 through 3.</li> </ul>							
11-FM-VM- K13T-072-m01	FOKUS Research Module Type VKM13T Theoretical Physics										
	ECTS	13	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			FOKUS Einführungsmodul Theoretische Physik (FOKUS Introductory Module Theoretical Physics): V (3 weekly contact hours) + Ü/P (1 weekly contact hour), details on availability to be announced FOKUS Kompaktseminar Theoretische Physik (FOKUS Block Taught Seminar Theoretical Physics): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break) FOKUS Miniforschungsprojekt Theoretische Physik (FOKUS Mini Research Project Theoretical Physics): P (2 weekly contact hours), German or English, details on availability to be announced (approx. 3 weeks, part time)							
	Method of assessment			<ul> <li>This module has the following assessment components</li> <li>1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages)</li> <li>2. Seminar: talk (approx. 30 to 45 minutes)</li> <li>3. Research project: project report (approx. 8 pages)</li> <li>Assessment components 1 through 3 will be offered in German or English.</li> <li>Students must register for assessment components 1 through 3 online (details to be announced).</li> <li>Details on when assessment components 1 through 3 will be offered to be announced.</li> <li>To pass this module, students must pass each of the assessment components 1 through 3.</li> </ul>							

11-FM-VM- K14E-072-m01	FOKUS Research Module Type VMK14E Experimental Physics											
	ECTS 14 Duration		Duration	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	.'S	          	<ul> <li>FOKUS Einführungsmodul Experimentelle Physik (FOKUS Introductory Module Experimental Physics): V (3 weekly contact hours) + Ü/P (2 weekly contact hours), details on availability to be announced</li> <li>FOKUS Kompaktseminar Experimentelle Physik (FOKUS Block Taught Seminar Experimental Physics): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break)</li> <li>FOKUS Miniforschungsprojekt Experimentelle Physik (FOKUS Mini Research Project Experimental Physics): P (2 weekly contact hours), German or English, details on availability to be announced (approx. 3 weeks, part time)</li> </ul>								
	Method of assessment			<ul> <li>This module has the following assessment components</li> <li>1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages)</li> <li>2. Seminar: talk (approx. 30 to 45 minutes)</li> <li>3. Research project: project report (approx. 8 pages)</li> <li>Assessment components 1 through 3 will be offered in German or English.</li> <li>Students must register for assessment components 1 through 3 online (details to be announced).</li> <li>Details on when assessment components 1 through 3 will be offered to be announced.</li> <li>To pass this module, students must pass each of the assessment components 1 through 3.</li> </ul>								
11-FM-VM-	FOKUS Research Module Type VMK14I Interdisciplinary Research Fields											
K14l-072-m01	ECTS	14	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			<ul> <li>FOKUS Einführungsmodul Interdisziplinäre Fachgebiete (FOKUS Introductory Module Interdisciplinary Research Fields): V (3 weekly contact hours) + Ü/P (2 weekly contact hours), details on availability to be announced</li> <li>FOKUS Kompaktseminar Interdisziplinäre Fachgebiete (FOKUS Block Taught Seminar Interdisciplinary Research Fields): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break)</li> <li>FOKUS Miniforschungsprojekt Interdisziplinäre Fachgebiete (FOKUS Mini Research Project Interdisciplinary Research Fields): P (2 weekly contact hours), German or English, details on availability to be announced (approx. 3 weeks, part time)</li> </ul>								
	Method of assessment			<ul> <li>This module has the following assessment components</li> <li>1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages)</li> <li>2. Seminar: talk (approx. 30 to 45 minutes)</li> <li>3. Research project: project report (approx. 8 pages)</li> <li>Assessment components 1 through 3 will be offered in German or English.</li> <li>Students must register for assessment components 1 through 3 online (details to be announced).</li> <li>Details on when assessment components 1 through 3 will be offered to be announced.</li> <li>To pass this module, students must pass each of the assessment components 1 through 3.</li> </ul>								

11-FM-VM-	FOKUS	Resear	rch Module	e Type VKM14T Theore	tical Physics					
K14T-072-m01	ECTS	14	Duration	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	!S		Ü/P (2 weekly contact FOKUS Kompaktsemir German or English, de break) FOKUS Miniforschungs	odul Theoretische Physik (FOKUS Introductory I t hours), details on availability to be announced nar Theoretische Physik (FOKUS Block Taught S etails on availability to be announced (block tau gsprojekt Theoretische Physik (FOKUS Mini Rese glish, details on availability to be announced (a	d Geminar Theoretical Phys ught seminar (3 days), u earch Project Theoretica	sics): S (2 weekly contact hours), usually held during semester Il Physics): P (2 weekly contact			
	Metho	d of ass		<ul> <li>This module has the following assessment components</li> <li>1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages)</li> <li>2. Seminar: talk (approx. 30 to 45 minutes)</li> <li>3. Research project: project report (approx. 8 pages)</li> <li>Assessment components 1 through 3 will be offered in German or English.</li> <li>Students must register for assessment components 1 through 3 online (details to be announced).</li> <li>Details on when assessment components 1 through 3 will be offered to be announced.</li> <li>To pass this module, students must pass each of the assessment components 1 through 3.</li> </ul>						
11-FM-VM-	FOKUS Research Module Type VMK16E Experimental Physics									
K16E-072-m01	ECTS	16	Duration	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	'S		<ul> <li>FOKUS Einführungsmodul Experimentelle Physik (FOKUS Introductory Module Experimental Physics): V (4 weekly cont hours) + Ü/P (2 weekly contact hours), details on availability to be announced</li> <li>FOKUS Kompaktseminar Experimentelle Physik (FOKUS Block Taught Seminar Experimental Physics): S (2 weekly cont hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during ster break)</li> <li>FOKUS Miniforschungsprojekt Experimentelle Physik (FOKUS Mini Research Project Experimental Physics): P (2 weekly hours), German or English, details on availability to be announced (approx. 3 weeks, part time)</li> </ul>						
	Metho	d of ass		<ul> <li>This module has the following assessment components</li> <li>1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages)</li> <li>2. Seminar: talk (approx. 30 to 45 minutes)</li> <li>3. Research project: project report (approx. 8 pages)</li> <li>Assessment components 1 through 3 will be offered in German or English.</li> <li>Students must register for assessment components 1 through 3 online (details to be announced).</li> <li>Details on when assessment components 1 through 3 will be offered to be announced.</li> <li>To pass this module, students must pass each of the assessment components 1 through 3.</li> </ul>						

11-FM-VM-	FOKUS	Resear	ch Module T	Type VMK16I Interdisc	iplinary Research Fields					
K16l-072-m01	ECTS	16	Duration	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	:S	w FC w di FC	eekly contact hours) + OKUS Kompaktsemina eekly contact hours), uring semester break) OKUS Miniforschungs	dul Interdisziplinäre Fachgebiete (FOKUS Intro – Ü/P (2 weekly contact hours), details on ava ar Interdisziplinäre Fachgebiete (FOKUS Block German or English, details on availability to l projekt Interdisziplinäre Fachgebiete (FOKUS s), German or English, details on availability to	ailability to be announce Taught Seminar Interdis be announced (block tau Mini Research Project In	d sciplinary Research Fields): S (2 ght seminar (3 days), usually held terdisciplinary Research Fields): P			
	Metho	d of ass	1. 2. 3. A. 5 D	<ul> <li>This module has the following assessment components</li> <li>1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages)</li> <li>2. Seminar: talk (approx. 30 to 45 minutes)</li> <li>3. Research project: project report (approx. 8 pages)</li> <li>Assessment components 1 through 3 will be offered in German or English.</li> <li>Students must register for assessment components 1 through 3 online (details to be announced).</li> <li>Details on when assessment components 1 through 3 will be offered to be announced.</li> <li>To pass this module, students must pass each of the assessment components 1 through 3.</li> </ul>						
11-FM-VM-	FOKUS Research Module Type VKM16T Theoretical Physics									
K16T-072-m01	ECTS	16	Duration	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S	Ü FC G bi	/P (2 weekly contact h OKUS Kompaktsemina erman or English, deta reak) OKUS Miniforschungs	dul Theoretische Physik (FOKUS Introductory nours), details on availability to be announce ar Theoretische Physik (FOKUS Block Taught S ails on availability to be announced (block ta projekt Theoretische Physik (FOKUS Mini Res ish, details on availability to be announced (	d Seminar Theoretical Phys ught seminar (3 days), u earch Project Theoretical	ics): S (2 weekly contact hours), sually held during semester Physics): P (2 weekly contact			
	Metho	d of ass	1. 2. 3. Ai Si D	Topics covered in lec amination of one can Seminar: talk (approx Research project: pro ssessment componen tudents must register etails on when assess	llowing assessment components tures and exercises: written examination (ap adidate each or oral examination in groups (a x. 30 to 45 minutes) oject report (approx. 8 pages) its 1 through 3 will be offered in German or Er for assessment components 1 through 3 onlisement components 1 through 3 will be offered sment components 1 through 3 will be offered cudents must pass each of the assessment com	pprox. 30 minutes) or pr nglish. ne (details to be announ I to be announced.	oject report (approx. 8 pages)			

11-FM-VK8N-072-	FOKUS	Resear	ch Module	Type VK8N								
m01	ECTS	8	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		hours) + Ü/P (1 weekl FOKUS Kompaktsemi	y contact hour), details c nar Nanostrukturtechnik	on availability to be announced (FOKUS Block Taught Seminar	l Nanostructure T	echnology): V (2 weekly contact echnology): S (2 weekly contact days), usually held during seme-				
	Method of assessment			1. Topics covered in l amination of one c				(approx. 30 minutes) or oral ex- oject report (approx. 8 pages)				
				Assessment components 1 and 2 will be offered in German or English. Students must register for assessment components 1 and 2 online (details to be announced). Details on when assessment components 1 and 2 will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.								
11-FM-VK9N-072-	FOKUS Research Module Type VK9N											
mo1	ECTS	9	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		hours) + Ü/P (1 weekl FOKUS Kompaktsemi	y contact hour), details c nar Nanostrukturtechnik	on availability to be announced (FOKUS Block Taught Seminar	l Nanostructure T	echnology): V (3 weekly contact echnology): S (2 weekly contact days), usually held during seme-				
	Methoo	d of asso		1. Topics covered in l amination of one c		mponents ritten examination (approx. 90 amination in groups (approx. 3		(approx. 30 minutes) or oral ex- oject report (approx. 8 pages)				
				Students must registe Details on when asse	ssment components 1 ar	ed in German or English. onents 1 and 2 online (details to nd 2 will be offered to be annou n assessment component 1 and	unced.					

11-FM-VK10N-072-	FOKUS	Resear	ch Modul	e Type VK10N Nanostructu	re Technology							
m01	ECTS	10	Duratior	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		hours) + Ü/P (2 weekly con FOKUS Kompaktseminar N	ntact hours), details Ianostrukturtechnik	on availability to be announced (FOKUS Block Taught Seminar I	d Nanostructure T	echnology): V (3 weekly contact echnology): S (2 weekly contact days), usually held during seme-				
	Method of assessment				es and exercises: wr date each or oral exa	nponents itten examination (approx. 90 n mination in groups (approx. 30		. (approx. 30 minutes) or oral ex- oject report (approx. 8 pages)				
				Assessment components 1 and 2 will be offered in German or English. Students must register for assessment components 1 and 2 online (details to be announced). Details on when assessment components 1 and 2 will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.								
11-FM-VK12N-072-	FOKUS Research Module Type VK12N Nanostructure Technology											
m01	ECTS	12	Duration	n 1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		hours) + Ü/P (2 weekly con FOKUS Kompaktseminar N	ntact hours), details Ianostrukturtechnik	on availability to be announced (FOKUS Block Taught Seminar I	d Nanostructure T	echnology): V (4 weekly contact echnology): S (2 weekly contact days), usually held during seme-				
	Methoo	d of ass	essment		es and exercises: wr date each or oral exa	nponents itten examination (approx. 90 i mination in groups (approx. 30		. (approx. 30 minutes) or oral ex- oject report (approx. 8 pages)				
				Details on when assessme	assessment compo ent components 1 an	ed in German or English. nents 1 and 2 online (details to d 2 will be offered to be annou assessment component 1 and	nced.					

11-FM-VM-	FOKUS	Resear	rch Module	Type VMK12N Nanos	tructure Technology				
K12N-072-m01	ECTS	12	Duration	1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	<u>'</u> S	r F F S F	nours) + Ü/P (1 weekly FOKUS Kompaktsemir nours), German or Eng ster break) FOKUS Miniforschung	odul Nanostrukturtechnik (FOKUS Introductory y contact hour), details on availability to be an nar Nanostrukturtechnik (FOKUS Block Taught S glish, details on availability to be announced (l gsprojekt Nanostrukturtechnik (FOKUS Mini Res or English, details on availability to be announc	nounced Seminar Nanostructure T block taught seminar (3 search Project Nanostruc	Technology): S (2 weekly contact days), usually held during seme- cture Technology): P (2 weekly con-		
	Metho	d of ass	1 2 3 4 5 0	<ul> <li>This module has the following assessment components</li> <li>1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages)</li> <li>2. Seminar: talk (approx. 30 to 45 minutes)</li> <li>3. Research project: project report (approx. 8 pages)</li> <li>Assessment components 1 through 3 will be offered in German or English.</li> <li>Students must register for assessment components 1 through 3 online (details to be announced).</li> <li>Details on when assessment components 1 through 3 will be offered to be announced.</li> <li>To pass this module, students must pass each of the assessment components 1 through 3.</li> </ul>					
11-FM-VM-	FOKUS	6 Resear							
K13N-072-m01	ECTS	13	Duration	1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	!S	r F F S F	nours) + Ü/P (1 weekly OKUS Kompaktsemir nours), German or Eng ster break) OKUS Miniforschung	odul Nanostrukturtechnik (FOKUS Introductory y contact hour), details on availability to be an nar Nanostrukturtechnik (FOKUS Block Taught S glish, details on availability to be announced (l gsprojekt Nanostrukturtechnik (FOKUS Mini Res or English, details on availability to be announce	nounced Seminar Nanostructure T block taught seminar (3 search Project Nanostruc	Technology): S (2 weekly contact days), usually held during seme- cture Technology): P (2 weekly con-		
	Metho	d of ass	1 2 3 4 5 0	<ul> <li>This module has the following assessment components</li> <li>1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages)</li> <li>2. Seminar: talk (approx. 30 to 45 minutes)</li> <li>3. Research project: project report (approx. 8 pages)</li> <li>Assessment components 1 through 3 will be offered in German or English.</li> <li>Students must register for assessment components 1 through 3 online (details to be announced).</li> <li>Details on when assessment components 1 through 3 will be offered to be announced.</li> <li>To pass this module, students must pass each of the assessment components 1 through 3.</li> </ul>					

11-FM-VM-	FOKUS	Resear	rch Module	Type VMK14N Nanost	ructure Technology				
K14N-072-m01	ECTS	14	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Course	25		hours) + Ü/P (2 weekly FOKUS Kompaktsemir hours), German or Eng ster break) FOKUS Miniforschung	y contact hours), details Iar Nanostrukturtechnik glish, details on availabi sprojekt Nanostrukturte	s on availability to be ann (FOKUS Block Taught Se ility to be announced (blo	nounced minar Nanostructure <sup>-</sup> ock taught seminar (3 arch Project Nanostruc	Fechnology): V (3 weekly contact Fechnology): S (2 weekly contact days), usually held during seme- cture Technology): P (2 weekly con- irt time)	
	Metho	d of ass		<ul> <li>This module has the following assessment components</li> <li>1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages)</li> <li>2. Seminar: talk (approx. 30 to 45 minutes)</li> <li>3. Research project: project report (approx. 8 pages)</li> <li>Assessment components 1 through 3 will be offered in German or English.</li> <li>Students must register for assessment components 1 through 3 online (details to be announced).</li> <li>Details on when assessment components 1 through 3 will be offered to be announced.</li> <li>To pass this module, students must pass each of the assessment components 1 through 3.</li> </ul>					
11-FM-VM-	FOKUS	Resear	rch Module	Type VMK16N Nanost	tructure Technology		, , , , , , , , , , , , , , , , , , , ,		
K16N-072-m01	ECTS	16	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Course	¥S		hours) + Ü/P (2 weekly FOKUS Kompaktsemir hours), German or Eng ster break) FOKUS Miniforschung	y contact hours), details Iar Nanostrukturtechnik glish, details on availabi sprojekt Nanostrukturte	on availability to be ann (FOKUS Block Taught Se ility to be announced (blo chnik (FOKUS Mini Resea	nounced minar Nanostructure <sup>-</sup> ock taught seminar (3 arch Project Nanostruc	Technology): V (4 weekly contact Technology): S (2 weekly contact days), usually held during seme- cture Technology): P (2 weekly con- int time)	
	Metho	d of ass		<ul> <li>tact hours), German or English, details on availability to be announced (approx. 3 weeks, part time)</li> <li>This module has the following assessment components <ol> <li>Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages)</li> <li>Seminar: talk (approx. 30 to 45 minutes)</li> <li>Research project: project report (approx. 8 pages)</li> </ol> </li> <li>Assessment components 1 through 3 will be offered in German or English. Students must register for assessment components 1 through 3 online (details to be announced). Details on when assessment components 1 through 3 will be offered to be announced. To pass this module, students must pass each of the assessment components 1 through 3.</li></ul>					

<b>Compulsory Elect</b>	ives Non-technical (6 EC1	S credits)							
41-IK-NW1-072- m01	Basic module: Compet	ence for Acquiring Information - for students of natural sciences							
m01	ECTS 1 Duration	on 1 semester Method of grading (not) successfully completed Modul level undergraduate							
	Courses	Ü (no information on SWS (weekly contact hours) and course language available)							
	Method of assessment	written examination (60 minutes)							
41-IK-NW2-072-		etence for Acquiring Information - for students of natural sciences							
m01	ECTS 2 Duration								
	Courses	Ü (no information on SWS (weekly contact hours) and course language available)							
		written examination (60 minutes)							
42-ENO-IK-072-	·	ice (English, Advanced Level)							
m01	ECTS 3 Duration								
	Courses Method of assessment	<ul> <li>Ü (no information on SWS (weekly contact hours) and course language available)</li> <li>option 1: written multi-component examination (approx. 90 minutes total) with 4 components (reading comprehension, liste-</li> </ul>							
	Modules successfully completed	to 15 pages total), all components/assessments each weighted 1:1; options will be selected and examination dates be fixed a the beginning of the course Language of assessment: English 42-ENM2 or 42-ENM3 or 42-ENM4 or assessment test							
	Participants and allo- cation of places	Number of places: 5-25. Places will be allocated by lot.							
42-ENO-LK-072-	Cultural Studies (Engli	sh, Advanced Level)							
m01	ECTS 3 Duration	on 1 semester Method of grading numerical grade Modul level undergraduate							
	Courses	Ü (no information on SWS (weekly contact hours) and course language available)							
	Method of assessment	option 1: written multi-component examination (approx. 90 minutes total) with 4 components (reading comprehension, liste- ning comprehension, writing, communication skills) or option 2: oral assessment (approx. 10 minutes) and written multi-com- ponent examination (approx. 60 to 90 minutes total) with 3 components (reading comprehension, listening comprehension, writing) or option 3: 2 to 4 oral assessments (approx. 30 to 60 minutes total) as well as 2 to 4 written assessments (approx. 10 to 15 pages total), all components/assessments each weighted 1:1; options will be selected and examination dates be fixed a the beginning of the course Language of assessment: English							
	Modules successfully completed	42-ENM2 or 42-ENM3 or 42-ENM4 or assessment test							
	Participants and allo- cation of places	Number of places: 5-25. Places will be allocated by lot.							

42-ENO-PR-072-	Advanc	ed Eng	lish Final	Exam							
m01	ECTS	2	Duratio	ı	1 semester	Method of gradin	g numerical grade	Modul le	vel	undergraduate	
	Course	S		no co	no courses assigned						
	Method of assessment			listen asses Langı	ing comprehensic sment be conside lage of assessme	on, writing and oral co red successfully con	ommunication skills; or opleted			ollowing four areas: reading and been successfully completed will	
	other p	rerequi	isites	Regis	tration for assess	nent: as specified.					
42-ENO-NW1-072-	English	n for the	e Natural S	Science	es 1 (Advanced Le	vel)					
m01	ECTS	4	Duratio	า	1 semester	Method of gradin	g numerical grade	Modul le	vel	undergraduate	
	Course	S		Ü + Ü	(no information o	n SWS (weekly conta	ct hours) and course la	nguage available)			
	Method of assessment			ning o poner writin to 15 the bo Langu	option 1: written multi-component examination (approx. 90 minutes total) with 4 components (reading comprehension, liste- ning comprehension, writing, communication skills) or option 2: oral assessment (approx. 10 minutes) and written multi-com- conent examination (approx. 60 to 90 minutes total) with 3 components (reading comprehension, listening comprehension, writing) or option 3: 2 to 4 oral assessments (approx. 30 to 60 minutes total) as well as 2 to 4 written assessments (approx. 10 to 15 pages total), all components/assessments each weighted 1:1; options will be selected and examination dates be fixed at the beginning of the course _anguage of assessment: English Assessment offered: once a year, winter semester						
	Modules successfully completed			42-EN	IM2 or 42-ENM3 o	r 42-ENM4 or assess	ment test				
	Participants and allo- cation of places			Number of places: 5-25. Places will be allocated by lot.							
42-ENO-NW2-072-	English	n for the	e Natural S	iciences 2 (Advanced Level)							
m01	ECTS	4	Duratio	1	1 semester Method of grading numerical grade Modul level undergraduate					undergraduate	
	Course	S		Ü + Ü	Ü + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment			option 1: written multi-component examination (approx. 90 minutes total) with 4 components (reading comprehension ning comprehension, writing, communication skills) or option 2: oral assessment (approx. 10 minutes) and written m ponent examination (approx. 60 to 90 minutes total) with 3 components (reading comprehension, listening compreh writing) or option 3: 2 to 4 oral assessments (approx. 30 to 60 minutes total) as well as 2 to 4 written assessments (a to 15 pages total), all components/assessments each weighted 1:1; options will be selected and examination dates b the beginning of the course Language of assessment: English Assessment offered: once a year, summer semester					minutes) and written multi-com- ision, listening comprehension, written assessments (approx. 10		
	Module comple		essfully	42-ENM2 or 42-ENM3 or 42-ENM4 or assessment test							
	Particip cation (		nd allo- es	Numb	per of places: 5-25	. Places will be alloca	ated by lot.				

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42-FRO-GW1-072-	French for the Humanities 1 (Advanced Level)												
m01	ECTS	4	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Courses	5	Ü (no	o information on SWS	6 (weekly contact hou	irs) and course language availa	able)						
	Method	l of asse	ning pone writin to 15 the b Lang	option 1: written multi-component examination (approx. 90 minutes total) with 4 components (reading comprehension, liste- ning comprehension, writing, communication skills) or option 2: oral assessment (approx. 10 minutes) and written multi-com- conent examination (approx. 60 to 90 minutes total) with 3 components (reading comprehension, listening comprehension, writing) or option 3: 2 to 4 oral assessments (approx. 30 to 60 minutes total) as well as 2 to 4 written assessments (approx. 10 to 15 pages total), all components/assessments each weighted 1:1; options will be selected and examination dates be fixed at the beginning of the course _anguage of assessment: French Assessment offered: once a year, winter semester									
	Module comple		ssfully 42-Fl	42-FRM2 or 42-FRM3 or 42-FRM4 or assessment test									
	Particip cation c			Number of places: 5-25. Places will be allocated by lot.									
42-FRO-GW2-072-	French for the Humanities 2 (Advanced Level)												
m01	ECTS	4	Duration	1 semester         Method of grading         numerical grade         Modul level         undergraduate									
	Courses	5	Ü (no	information on SWS	6 (weekly contact hou	irs) and course language availa	able)						
	Method	l of asse	ning pone writin to 15 the b Lang	comprehension, writ ent examination (app ng) or option 3: 2 to 2 pages total), all com peginning of the cour uage of assessment:	ing, communication rox. 60 to 90 minutes 4 oral assessments (a 1 ponents/assessmen se	skills) or option 2: oral assess s total) with 3 components (rea approx. 30 to 60 minutes total) ts each weighted 1:1; options v	nent (approx. 10 ding compreher as well as 2 to 4	s (reading comprehension, liste- o minutes) and written multi-com- nsion, listening comprehension, written assessments (approx. 10 and examination dates be fixed at					
	Module comple		ssfully 42-FI	42-FRM2 or 42-FRM3 or 42-FRM4 or assessment test									
	Particip cation c			ber of places: 5-25. F	Places will be allocate	ed by lot.							

42-FRO-IK-072-	Intercultural	Competen	e (Frer	nch, Advanced Lev	vel)					
m01	ECTS 3	Duratio	า	1 semester	Method of grading	g numerical grade	Modul level	undergraduate		
	Courses		Ü (no	Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of as	sessment	ning c poner writin to 15 p the be	option 1: written multi-component examination (approx. 90 minutes total) with 4 components (reading comprehension, liste- ning comprehension, writing, communication skills) or option 2: oral assessment (approx. 10 minutes) and written multi-com- ponent examination (approx. 60 to 90 minutes total) with 3 components (reading comprehension, listening comprehension, writing) or option 3: 2 to 4 oral assessments (approx. 30 to 60 minutes total) as well as 2 to 4 written assessments (approx. 10 to 15 pages total), all components/assessments each weighted 1:1; options will be selected and examination dates be fixed at the beginning of the course Language of assessment: French						
	Modules succ completed	cessfully	42-FR	M2 or 42-FRM3 or a	42-FRM4 or assessm	ent test				
	Participants a cation of plac		Numb	er of places: 5-25.	Places will be alloca	ted by lot.				
42-FRO-LK-072-	Intercultural	Competen	e (Frer	nch, Advanced Lev	rel)					
m01	ECTS 3	Duratio	1	1 semester	Method of gradin	g numerical grade	Modul level	undergraduate		
	Courses		Ü (no	information on SW	VS (weekly contact he	ours) and course langua	age available)			
	Method of as		ning o poner writin to 15 p the be Langu	comprehension, wi nt examination (ap g) or option 3: 2 to bages total), all co eginning of the cou lage of assessmen	riting, communicatio pprox. 60 to 90 minut o 4 oral assessments mponents/assessme urse ot: French	n skills) or option 2: ora es total) with 3 compor (approx. 30 to 60 minu ents each weighted 1:1;	al assessment (approx. 1 nents (reading comprehe tes total) as well as 2 to 2	ts (reading comprehension, liste- o minutes) and written multi-com- nsion, listening comprehension, 4 written assessments (approx. 10 and examination dates be fixed at		
	Modules succ completed	cessfully	42-FR	42-FRM2 or 42-FRM3 or 42-FRM4 or assessment test						
	Participants a cation of plac		Number of places: 5-25. Places will be allocated by lot.							
42-FRO-PR-072-	Advanced Fre	nch Final E	xam							
m01	ECTS 2	Duratio	า	1 semester	Method of grading	g numerical grade	Modul level	undergraduate		
	Courses		no co	urses assigned						
	Method of as	sessment	written and oral examination (200 to 210 minutes total) testing the candidate's skills in the following four areas: realistening comprehension, writing and oral communication skills; only if all components have been successfully compassessment be considered successfully completed Language of assessment: French Assessment offered: once a year (autumn, semester break)							
	other prerequ	isites	Regist	Registration for assessment: as specified.						

42-FRO-W1-072-	French	for Bus	iness 1 (A	dvance	ed Level)						
m01	ECTS	4	Duration	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		Ü (no	Ü (no information on SWS (weekly contact hours) and course language available)						
	Methoo	d of ass		ning c poner writin to 15   the be Langu	option 1: written multi-component examination (approx. 90 minutes total) with 4 components (reading comprehension, liste- ning comprehension, writing, communication skills) or option 2: oral assessment (approx. 10 minutes) and written multi-com- ponent examination (approx. 60 to 90 minutes total) with 3 components (reading comprehension, listening comprehension, writing) or option 3: 2 to 4 oral assessments (approx. 30 to 60 minutes total) as well as 2 to 4 written assessments (approx. 10 to 15 pages total), all components/assessments each weighted 1:1; options will be selected and examination dates be fixed at the beginning of the course Language of assessment: French Assessment offered: once a year, winter semester						
	Module comple		essfully	42-FR	M2 or 42-FRM3 or	42-FRM4 or assessmer	nt test				
	Particip cation		nd allo- es	Numb	Number of places: 5-25. Places will be allocated by lot.						
42-FRO-W2-072-	French for Business 2 (Advanced Level)										
m01	ECTS 4 Duratio			n							
	Course	S		Ü (no information on SWS (weekly contact hours) and course language available)							
	Methoo	d of ass		ning o poner writin to 15   the be Langu	comprehension, wi nt examination (ap g) or option 3: 2 to pages total), all co eginning of the cou uage of assessmen	riting, communication prox. 60 to 90 minutes 0 4 oral assessments (a mponents/assessmen urse	skills) or option 2: oral assess s total) with 3 components (rea approx. 30 to 60 minutes total) nts each weighted 1:1; options	ment (approx. 10 ading comprehe ) as well as 2 to 2	s (reading comprehension, liste- o minutes) and written multi-com- nsion, listening comprehension, 4 written assessments (approx. 10 and examination dates be fixed at		
	Module comple		essfully	42-FRM2 or 42-FRM3 or 42-FRM4 or assessment test							
	Particip cation		nd allo- es	Numb	er of places: 5-25.	Places will be allocate	ed by lot.				

42-SPO-GW1-072-	- Spanish for the Humanities 1 (Advanced Level)									
m01	ECTS 4	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	Ü (n	o information on SWS	(weekly contact hou	irs) and course language availa	ble)				
	Method of ass	ning pone writi to 15 the b Lang	option 1: written multi-component examination (approx. 90 minutes total) with 4 components (reading comprehension, liste- ning comprehension, writing, communication skills) or option 2: oral assessment (approx. 10 minutes) and written multi-com- ponent examination (approx. 60 to 90 minutes total) with 3 components (reading comprehension, listening comprehension, writing) or option 3: 2 to 4 oral assessments (approx. 30 to 60 minutes total) as well as 2 to 4 written assessments (approx. 10 to 15 pages total), all components/assessments each weighted 1:1; options will be selected and examination dates be fixed at the beginning of the course Language of assessment: Spanish Assessment offered: once a year, winter semester							
	Modules succ completed	essfully 42-S	42-SPM2 or 42-SPM3 or 42-SPM4 or assessment test							
	Participants a cation of place		Number of places: 5-25. Places will be allocated by lot.							
42-SPO-GW2-072-	Spanish for the Humanities 2 (Advanced Level)									
m01	ECTS 4	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	Ü (n	o information on SWS	(weekly contact hou	irs) and course language availa	ble)				
	Method of ass	ning pone writi to 15 the b Lang	option 1: written multi-component examination (approx. 90 minutes total) with 4 components (reading comprehension, liste- ning comprehension, writing, communication skills) or option 2: oral assessment (approx. 10 minutes) and written multi-com- ponent examination (approx. 60 to 90 minutes total) with 3 components (reading comprehension, listening comprehension, writing) or option 3: 2 to 4 oral assessments (approx. 30 to 60 minutes total) as well as 2 to 4 written assessments (approx. 10 to 15 pages total), all components/assessments each weighted 1:1; options will be selected and examination dates be fixed at the beginning of the course Language of assessment: Spanish Assessment offered: once a year, summer semester							
	Modules succ completed	essfully 42-S	42-SPM2 or 42-SPM3 or 42-SPM4 or assessment test							
	Participants a cation of place		Number of places: 5-25. Places will be allocated by lot.							

42-SPO-IK-072-	Intercultural Competence (Spanish, Advanced Level)										
moı	ECTS 3	Durati	on	1 semester	Method of grading	g numerical grade	Modul level	undergraduate			
	Courses		Ü (no	Ü (no information on SWS (weekly contact hours) and course language available)							
	Method c	of assessmen	ning pone writin to 15 the b	option 1: written multi-component examination (approx. 90 minutes total) with 4 components (reading comprehension, liste- ning comprehension, writing, communication skills) or option 2: oral assessment (approx. 10 minutes) and written multi-com- ponent examination (approx. 60 to 90 minutes total) with 3 components (reading comprehension, listening comprehension, writing) or option 3: 2 to 4 oral assessments (approx. 30 to 60 minutes total) as well as 2 to 4 written assessments (approx. 10 to 15 pages total), all components/assessments each weighted 1:1; options will be selected and examination dates be fixed at the beginning of the course Language of assessment: Spanish							
	Modules complete	successfully d	42-S	42-SPM2 or 42-SPM3 or 42-SPM4 or assessment test							
	Participal cation of	nts and allo- places	Num	Number of places: 5-25. Places will be allocated by lot.							
42-SPO-LK-072-	Cultural S	Studies (Spai	ish, Ad	vanced Level)							
m01	ECTS 3	Durati	on	1 semester	Method of grading	g numerical grade	Modul level	undergraduate			
	Courses		Ü (no	information on S	WS (weekly contact ho	ours) and course language	e available)				
	Method c	of assessmen	ning pone writin to 15 the b	option 1: written multi-component examination (approx. 90 minutes total) with 4 components (reading comprehension, liste- ning comprehension, writing, communication skills) or option 2: oral assessment (approx. 10 minutes) and written multi-com- ponent examination (approx. 60 to 90 minutes total) with 3 components (reading comprehension, listening comprehension, writing) or option 3: 2 to 4 oral assessments (approx. 30 to 60 minutes total) as well as 2 to 4 written assessments (approx. 10 to 15 pages total), all components/assessments each weighted 1:1; options will be selected and examination dates be fixed at the beginning of the course Language of assessment: Spanish							
	Modules complete	successfully d	42-S	42-SPM2 or 42-SPM3 or 42-SPM4 or assessment test							
	Participa cation of	nts and allo- places	Num	Number of places: 5-25. Places will be allocated by lot.							
42-SPO-PR-072-	Advanced	d Spanish Fin	al Exam	Exam							
m01	ECTS 2	Durati	on	1 semester	Method of grading	g numerical grade	Modul level	undergraduate			
	Courses		no co	no courses assigned							
	Method c	of assessmen	lister asse Lang	written and oral examination (200 to 210 minutes total) testing the candidate's skills in the following four areas: reading and listening comprehension, writing and oral communication skills; only if all components have been successfully completed will assessment be considered successfully completed Language of assessment: Spanish Assessment offered: once a year (autumn, semester break)							
	other pre	requisites	Regis	Registration for assessment: as specified.							

42-SPO-W1-072-	Spanish for Business 1 (Advanced Level)										
m01	ECTS	4	Duration	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		Ü (no	information on SV	VS (weekly contact hou	urs) and course language avail	able)			
	Method of assessment			option 1: written multi-component examination (approx. 90 minutes total) with 4 components (reading comprehension, liste- ning comprehension, writing, communication skills) or option 2: oral assessment (approx. 10 minutes) and written multi-com- ponent examination (approx. 60 to 90 minutes total) with 3 components (reading comprehension, listening comprehension, writing) or option 3: 2 to 4 oral assessments (approx. 30 to 60 minutes total) as well as 2 to 4 written assessments (approx. 10 to 15 pages total), all components/assessments each weighted 1:1; options will be selected and examination dates be fixed at the beginning of the course Language of assessment: Spanish Assessment offered: once a year, winter semester							
	Module comple	es succe eted	essfully	42-SPM2 or 42-SPM3 or 42-SPM4 or assessment test							
	Participants and allo- cation of places			Number of places: 5-25. Places will be allocated by lot.							
42-SPO-W2-072-	Spanish for Business 2 (Advanced Level)										
m01	ECTS	4	Duration	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		Ü (no	information on SV	VS (weekly contact hou	urs) and course language avail	able)			
	Methoo	d of ass		option 1: written multi-component examination (approx. 90 minutes total) with 4 components (reading comprehension, liste- ning comprehension, writing, communication skills) or option 2: oral assessment (approx. 10 minutes) and written multi-com- ponent examination (approx. 60 to 90 minutes total) with 3 components (reading comprehension, listening comprehension, writing) or option 3: 2 to 4 oral assessments (approx. 30 to 60 minutes total) as well as 2 to 4 written assessments (approx. 10 to 15 pages total), all components/assessments each weighted 1:1; options will be selected and examination dates be fixed at the beginning of the course Language of assessment: Spanish Assessment offered: once a year, summer semester							
	Modules successfully completed			42-SPM2 or 42-SPM3 or 42-SPM4 or assessment test							
				Number of places: 5-25. Places will be allocated by lot.							

41-IK-NW1-101-	Information Literacy for Students of the Natural Sciences (Basic Level)										
m01	ECTS 2 Duration	n 1 semester Method of grading (not) successfully completed Modul level undergraduate									
	Courses	Ü (no information on SWS (weekly contact hours) and course language available)									
	Method of assessment	a) written examination (approx. 60 minutes) or b) preparing and delivering a presentation with slides (approx. 10 minutes or approx. 5 minutes and approx. 1 page) or c) completing exercises (approx. 10 exercises) or d) presentation without slides (approx. 20 to 30 minutes) or e) preparing and delivering a presentation with slides (approx. 5 minutes) and completing exercises (approx. 5 exercises) or f) presentation without slides (approx. 10 to 15 minutes) and completing exercises (approx. 5 exercises) or f) presentation without slides (approx. 10 to 15 minutes) and completing exercises (approx. 5 exercises) or f) presentation without slides (approx. 10 to 15 minutes) and completing exercises (approx. 5 exercises) or f) presentation without slides (approx. 10 to 15 minutes) and completing exercises (approx. 5 exercises) or f) presentation without slides (approx. 10 to 15 minutes) and completing exercises (approx. 5 exercises) or f) presentation without slides (approx. 10 to 15 minutes) and completing exercises (approx. 5 exercises) or f) presentation without slides (approx. 10 to 15 minutes) and completing exercises (approx. 5 exercises) or f) presentation without slides (approx. 10 to 15 minutes) and completing exercises (approx. 5 exercises) or f) presentation without slides (approx. 10 to 15 minutes) and completing exercises (approx. 5 exercises) or f) presentation without slides (approx. 10 to 15 minutes) and completing exercises (approx. 5 exercises) or f) presentation without slides (approx. 10 to 15 minutes) and completing exercises (approx. 5 exercises) or f) presentation without slides (approx. 10 to 15 minutes) and completing exercises (approx. 5 exercises) or f) presentation without slides (approx. 10 to 15 minutes) and completing exercises (approx. 5 exercises) or f) presentation without slides (approx. 10 to 15 minutes) and completing exercises (approx. 5 exercises) or f) presentation without slides (approx. 10 to 15 minutes) and completing exercises (approx. 5 exercises) or f) presentation without									
	Participants and allo- cation of places	Number of places: 5-50. There is a restricted number of places. If necessary, places will be allocated as follows: Students of the degree programmes of the respective subject-specific focuses will be given preferential consideration. The remaining places, if and when any become available, will be allocated to students of the other natural sciences degree programmes. In each of the above-mentioned groups, 30% of places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. The remaining 70% of places will each be allocated by lot.									
41-IK-NW2-101- m01	Information Literacy for Students of the Natural Sciences (Advanced Level)										
	ECTS 2 Duration	n 1 semester Method of grading (not) successfully completed Modul level undergraduate									
	Courses	Ü (no information on SWS (weekly contact hours) and course language available)									
	Method of assessment	a) written examination (approx. 60 minutes) or b) preparing and delivering a presentation with slides (approx. 10 minutes or approx. 5 minutes and approx. 1 page) or c) completing exercises (approx. 10 exercises) or d) presentation without slides (approx. 20 to 30 minutes) or e) preparing and delivering a presentation with slides (approx. 5 minutes) and completing exercises (approx. 5 exercises) or f) presentation without slides (approx. 10 to 15 minutes) and completing exercises (approx. 5 exercises) or f) presentation without slides (approx. 10 to 15 minutes) and completing exercises (approx. 5 exercises)									
	other prerequisites	Knowledge and skills equivalent to those achieved in the basic module desirable.									
	Participants and allo- cation of places	Number of places: 10 to 50. There is a restricted number of places. If necessary, places will be allocated as follows: Students of the degree programmes of the respective subject-specific focuses will be given preferential consideration. The remaining places, if and when any become available, will be allocated to students of the other natural sciences degree programmes. In each of the above-mentioned groups, 30% of places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. The remaining 70% of places will each be allocated by lot.									
Thesis (30 ECTS o	redits)										
11-MA-NF-072-mo	1 Master Thesis FOKUS N	anostructuring Technology									
	ECTS 30 Duration	n 1 semester Method of grading numerical grade Modul level graduate									
	Courses	no courses assigned									
	Method of assessment	written thesis (approx. 75 pages) Language of assessment: German or English									
	other prerequisites	Registration for assessment to be carried out electronically. Deadlines will be announced separately. Please consult with your supervisor.									

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