



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: 2006 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:

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

15-May-2008 (2008-16)

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	To be specified in the form X (y) with course type X abbreviated as specified above and number of weekly contact hours y						
	Method of as	ssessme	ent							
	Only after su completion of		l if applica	if applicable						
	Other prerequisites		if applica	if applicable						
	Participants and allocati- on of places		ocati- if applica	if applicable						
	Additional information		on if applica	if applicable						
	Referred to in	n LPO I	if applica	ble (examination re	gulations for teachin	g-degree programmes)				

11-PFM-072-m01	Advanced	Practical Cou	rse Master							
1111111072 1101	ECTS 6			Method of gradin	(not) successfully co	ompleted Modul level	graduate			
	Courses	Durution		•			contact hours), German or English			
							contact hours), German or English			
	Method o	f assessment	 This module has the following assessment components 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). 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 an oral test (approx. 30 minutes) is passed prior to the experiment. b) Performing and evaluating 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). 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. 							
	Modules s	successfully d	11-E1, 11-E2			1ent 1 and assessment c	·			
	other prer	requisites	11-A3	11-A3						
11-FPN-072-m01	FOKUS Pr	oject Practical	Course Nanostructuring Technology							
	ECTS 10	Duration	n 1 semester	Method of gradin	g numerical grade	Modul level	graduate			
	Courses		P (no information on	SWS (weekly contact ho	ours) and course langu	age available)				
				a) project report (approx. 20 pages) and b) talk (approx. 30 minutes) with discussion on topic researched in project						
11-FS-NF-072-m01	Professio	nal Specializa	tion FOKUS Nanostru							
	ECTS 15	5 Duration			g numerical grade	Modul level	graduate			
	Courses		-	S (no information on SWS (weekly contact hours) and course language available)						
			· · · · · · · ·	5 minutes) with discussi						
11-MP-NF-072-m01	Scientific	Methods and	Project Management	FOKUS Nanostructuring	Technology 1					
	ECTS 15	5 Duratio	,		g numerical grade	Modul level	graduate			
	Courses			SWS (weekly contact ho		age available)				
	Method of	fassessment	talk (approx. 30 to 4	5 minutes) with discussi	on					

Compulsory Electiv	es (44 ECTS cre	dits)										
Compulsory Electiv	es Nanomatrix ((12 ECTS	credits)									
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			. ,	hours) and course language av	-						
	Method of asso	essment					ation of one candidate each or					
					es) or d) project report (approx.	10 pages)						
08-NM-NS- MA-072-m01	ECTS 6		and Structuring Techno			Madullaust	ave due to					
1111 072 1101		Duratio		Method of grading	numerical grade hours) and course language av	Modul level	graduate					
	Courses		`		, 00	· · · · · ·	ation of any condidate cook or					
	Method of ass	essment			es) or d) project report (approx.		nation of one candidate each or					
11-NM-WP-	Nanomatrix He	eat Insula	ting Systems and Photo									
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					
		<u> </u>		oups (approx. 30 minute	es) or d) project report (approx.	10 pages)						
11-NM-HM- MA-072-m01		1	ctor Materials (Master)		· · ·							
MA-072-1101	ECTS 6	Duratio		Method of grading	-	Modul level	graduate					
	Courses			V + R (no information on SWS (weekly contact hours) and course language available) a) written examination (approx. 90 minutes) or b) talk (approx. 30 minutes) or c) oral examination of one candidate each or								
	Method of asso	essment			r b) talk (approx. 30 minutes) o es) or d) project report (approx.		lation of one candidate each or					
11-NM-HP-MA-072-	Nanomatrix Se	emicondu	ctor Processing (Master	1 11 2		20 Pageo,						
mo1	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)						
11-NM-MB- MA-072-m01		-	o- and Optoelectronic De			1						
MA-072-11101	ECTS 6	Duratio		Method of grading		Modul level	graduate					
	Courses			· · ·	hours) and course language av							
	Method of ass	essment					nation of one candidate each or					
03-NM-BW-	Nanomatrix Bi	oral examination in groups (approx. 30 minutes) or d) project report (approx. 10 pages) Nanomatrix Biomedical 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					
			oral examination in gro	oups (approx. 30 minute	es) or d) project report (approx.	10 pages)						
Master's with 1 major FO	KUS Physics - Nanostru	ucturing Techi	nology (2006)		JMU Würzburg • generated 11-Jan-202	23 • exam. reg. data re	ecord 88 eo6 - - H 2006 page 4 / 27					

07-NM-BS-	Nanomatrix Bi	ocompati	ble Str	ucturing Technolog	ries (Master)					
MA-072-m01	ECTS 6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		V + R	(no information on S	SWS (weekly contact	hours) and course language av	ailable)			
	Method of ass	essment		a) written examination (approx. 90 minutes) or b) talk (approx. 30 minutes) or c) oral examination of one candidate each or						
			oral examination in groups (approx. 30 minutes) or d) project report (approx. 10 pages) cal Analyzing Systems and Processes (Master)							
11-NM-BV-MA-072-			-				1			
m01	ECTS 6	Duratio		1 semester	Method of grading	-	Modul level	graduate		
	Courses			+ R (no information on SWS (weekly contact hours) and course language available) written examination (approx. 90 minutes) or b) talk (approx. 30 minutes) or c) oral examination of one candidate each or						
	Method of ass	essment				r b) talk (approx. 30 minutes) o es) or d) project report (approx.		ation of one candidate each or		
Compulsory Electiv	es Specialisati	on Nanos	tructur	e Technology (10 EC	TS credits)					
11-SF-4E-072-m01	Module Type 4	E Specia	Traini	ng Experimental Ph	ysics					
	ECTS 4	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		V + R	no information on s	SWS (weekly contact	hours) and course language av	ailable)			
	Method of ass	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	I Special	Trainir	ng Interdisciplinary	Research Fields					
	ECTS 4	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		V + R	(no information on S	SWS (weekly contact	hours) and course language av	ailable)			
	Method of ass	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-4T-072-m01	Module Type 2	T Special	Traini	ng Theoretical Phys	sics					
	ECTS 4	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		V + R	(no information on S	SWS (weekly contact	hours) and course language av	ailable)			
	Method of ass	essment				r b) talk (approx. 30 minutes) o es) or d) project report (approx.		ation of one candidate each or		
11-SF-5E-072-m01	Module Type	E Special	Traini	ng Experimental Ph	ysics					
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	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-SF-5I-072-m01	Module Type	S Special		ng Interdisciplinary						
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		V + R	(no information on S	SWS (weekly contact	hours) and course language av	ailable)			
	Method of ass	essment				r b) talk (approx. 30 minutes) o es) or d) project report (approx.		ation of one candidate each or		

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11-SF-5T-072-m01	Module T	ype 5T Specia	Traini	ng Theoretical Phy	sics					
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		V + R	(no information on	SWS (weekly contact	hours) and course language av	ailable)			
	Method o	fassessment				r b) talk (approx. 30 minutes) o es) or d) project report (approx.		ation of one candidate each or		
11-SF-6E-072-m01	Module T	ype 6E Specia	l Traini	raining Experimental Physics						
	ECTS 6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses				. ,	hours) and course language av	-			
	Method o	fassessment) written examination (approx. 90 minutes) or b) talk (approx. 30 minutes) or c) oral examination of one candidate each or ral examination in groups (approx. 30 minutes) or d) project report (approx. 12 pages)						
11-SF-6I-072-m01	Module T	ype 6I Special	Traini	ng Interdisciplinary	/ Research Fields					
	ECTS 6	Duratio		1 semester	Method of grading		Modul level	graduate		
	Courses			-		hours) and course language av	-			
	Method o	fassessment		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 T	ype 6T Specia	l Traini	ing Theoretical Phy	sics					
	ECTS 6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			/ + R (no information on SWS (weekly contact hours) and course language available)						
	Method o	fassessment		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	Module T	ype 8E Specia	l Traini	Training Experimental Physics						
	ECTS 8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses					hours) and course language av				
	Method o	fassessment		a) written examination (approx. 90 minutes) or b) talk (approx. 30 minutes) or c) oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or d) project report (approx. 16 pages)						
11-SF-8I-072-m01	Module T	ype 8I Special	Traini	ng Interdisciplinary	/ Research Fields					
	ECTS 8	Duratio		1 semester	Method of grading	•	Modul level	graduate		
	Courses			-		hours) and course language av	•			
	Method o	fassessment				r b) talk (approx. 30 minutes) o es) or d) project report (approx.		ation of one candidate each or		
11-SF-8T-072-m01	Module T	ype 8T Specia	l Traini	ing Theoretical Phy	sics					
	ECTS 8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			-	. ,	hours) and course language av	-			
	Method o	fassessment				r b) talk (approx. 30 minutes) o es) or d) project report (approx.		ation of one candidate each or		

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11-SF-4N-072-m01	Module Typ	e 4N Specia	l Train	ing Nanostructure 1	Technology					
	ECTS 4	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		V + R	(no information on	SWS (weekly contact	hours) and course language av	vailable)			
	Method of a	issessment				r b) talk (approx. 30 minutes) o es) or d) project report (approx.		ation of one candidate each or		
11-SF-5N-072-m01	Module Typ	e 5N Specia	l Traini	ing Nanostructure 1	Technology					
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses				. ,	hours) and course language av	-			
	Method of a	issessment				r b) talk (approx. 30 minutes) o es) or d) project report (approx.		ation of one candidate each or		
11-SF-6N-072-m01		e 6N Specia	l Train	ing Nanostructure	Technology					
	ECTS 6	Duratio		1 semester	Method of grading	=	Modul level	graduate		
	Courses					hours) and course language av				
	Method of a	issessment				r b) talk (approx. 30 minutes) o es) or d) project report (approx.		ation of one candidate each or		
11-SF-8N-072-m01	Module Typ	e 8N Specia	l Train	ing Nanostructure	Technology					
	ECTS 8	Duratio		1 semester	Method of grading	-	Modul level	graduate		
	Courses			V + R (no information on SWS (weekly contact hours) and course language available)						
	Method of a	issessment	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)					ation of one candidate each or		
Research Modules	Nanostructu	re Technolog	gy (16	ECTS credits)						
11-FM-VK8E-072-	FOKUS Rese	earch Modul	е Туре	VK8E Experimenta	l Physics					
m01	ECTS 8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		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)							
	Method of a	assessment	1. Top am 2. Ser Asses Stude Detai	bics covered in lectur ination of one cance minar: talk (approx. ssment components ents must register for ls on when assessm	didate each or oral exa . 30 to 45 minutes) s 1 and 2 will be offere or assessment compo nent components 1 an		o minutes) or pr b be announced) inced.).		

11-FM-VK8I-072-	FOKUS	Resear	ch Module	e Type VK8I Interdiscip	inary Research Fields						
m01	ECTS	8	Duratior	1 semester	Method of grading nu	Imerical grade	Modul level	graduate			
	Course	S		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)							
	Metho	d of ass		1. Topics covered in lea	ndidate each or oral exami	en examination (approx. g	90 minutes) or talk . 30 minutes) or pr	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-VK8T-072-	FOKUS Research Module Type VK8T Theoretical Physics										
m01	ECTS	8	Duratior	1 semester	Method of grading nu	ımerical grade	Modul level	graduate			
				Ü/P (1 weekly contact ł FOKUS Kompaktsemina	iour), details on availabilit ar Theoretische Physik (FO	y to be announced KUS Block Taught Semina	ar Theoretical Phys	ics): V (2 weekly contact hours) + ics): S (2 weekly contact hours), sually held during semester			
	Method of assessment			1. Topics covered in lea	ndidate each or oral exami	en examination (approx. 9	90 minutes) or talk . 30 minutes) or pr	c (approx. 30 minutes) or oral ex- oject report (approx. 8 pages)			
				Students must register Details on when asses	its 1 and 2 will be offered i for assessment componer sment components 1 and 2 sudents must pass both as	nts 1 and 2 online (details will be offered to be ann	iounced.				

11-FM-VK9E-072-	FOKUS	Resear	ch Module	Type VK9E Experimental Physics								
m01	ECTS	9	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 (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)								
	Method of assessment				res and exercises: wr date each or oral exa	nponents ritten examination (approx. 90 i imination in groups (approx. 30		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-VK9I-072-	FOKUS Research Module Type VK9I Interdisciplinary Research Fields											
m01	ECTS	9	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			FOKUS Einführungsmodul Interdisziplinäre Fachgebiete (FOKUS Introductory Module Interdisciplinary Research Fields): V (3 weekly contact hours) + Ü/P (1 weekly contact hour), details on availability to be announced FOKUS Kompaktseminar Interdisziplinäre Fachgebiete (FOKUS Block Taught Seminar Interdisciplinary Research Fields): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break)								
	Method of assessment			 This module has the follor Topics covered in lectur amination of one candi Seminar: talk (approx. 	res and exercises: wr date each or oral exa	mponents ritten examination (approx. 90 i imination in groups (approx. 30	minutes) or talk minutes) or pr	c (approx. 30 minutes) or oral ex- oject report (approx. 8 pages)				
				Details on when assessm	r assessment compo ent components 1 an	ed in German or English. nents 1 and 2 online (details to od 2 will be offered to be annou assessment component 1 and	nced.					

11-FM-VK9T-072-	FOKUS	Resear	ch Modul	e Type VK9T Theoretical I	Physics							
m01	ECTS	9	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		FOKUS Einführungsmodul Theoretische Physik (FOKUS Introductory Module Theoretical Physics): V (3 weekly contact hours) + Ü/P (1 weekly contact hour), details on availability to be announced FOKUS Kompaktseminar Theoretische Physik (FOKUS Block Taught Seminar Theoretical Physics): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break)								
	Method of assessment			This module has the foll 1. Topics covered in lect amination of one cano 2. Seminar: talk (approx	ures and exercises: wr didate each or oral exa	ritten 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-VK10E-072-	FOKUS Research Module Type VK10E Experimental Physics											
m01	ECTS	10	Duration	n 1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		FOKUS Einführungsmodul Experimentelle Physik (FOKUS Introductory Module Experimental Physics): V (3 weekly contact hours) + Ü/P (2 weekly contact hours), details on availability to be announced FOKUS Kompaktseminar Experimentelle Physik (FOKUS Block Taught Seminar Experimental Physics): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during seme- ster break)								
	Method of assessment			This module has the foll 1. Topics covered in lect amination of one cano 2. Seminar: talk (approx	ures and exercises: wr didate each or oral exa	ritten 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 assessr	or assessment compo nent components 1 an	ed in German or English. nents 1 and 2 online (details id 2 will be offered to be anno assessment component 1 ar	ounced.					

11-FM-VK10I-072-	FOKUS	Resear	ch Modul	e Type VK10l Interdisci	plinary Research Fields							
m01	ECTS	10	Duration	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	!S		FOKUS Einführungsmodul Interdisziplinäre Fachgebiete (FOKUS Introductory Module Interdisciplinary Research Fields): V (3 weekly contact hours) + Ü/P (2 weekly contact hours), details on availability to be announced FOKUS Kompaktseminar Interdisziplinäre Fachgebiete (FOKUS Block Taught Seminar Interdisciplinary Research Fields): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break)								
	Method of assessment			1. Topics covered in le	ollowing assessment components ectures and exercises: written examination (appro andidate each or oral examination in groups (appr ox. 30 to 45 minutes)	x. 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-VK10T-072-	FOKUS Research Module Type VK10T Theoretical Physics											
m01	ECTS	10	Duration	n 1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	2S		FOKUS Einführungsmodul Theoretische Physik (FOKUS Introductory Module Theoretical Physics): V (3 weekly contact hours) + Ü/P (2 weekly contact hours), details on availability to be announced FOKUS Kompaktseminar Theoretische Physik (FOKUS Block Taught Seminar Theoretical Physics): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break)								
	Method of assessment			1. Topics covered in le	ollowing assessment components ectures and exercises: written examination (approx andidate each or oral examination in groups (appr ox. 30 to 45 minutes)							
				Students must registe Details on when asses	ents 1 and 2 will be offered in German or English. In for assessment components 1 and 2 online (deta assment components 1 and 2 will be offered to be a students must pass both assessment component	announced.						

11-FM-VK12E-072-	FOKUS Research Module Type VK12E Experimental Physics										
m01	ECTS	12	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	S		hours) + Ü/P (2 weekly FOKUS Kompaktsemina	contact hours), details ar Experimentelle Physi	on availability to be annou k (FOKUS Block Taught Ser	unced minar Experimental I	Physics): V (4 weekly contact Physics): S (2 weekly contact days), usually held during seme-			
	Method of assessment			1. Topics covered in lea	tures and exercises: wi ndidate each or oral exa	ritten examination (approx	k. 90 minutes) or talk ox. 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-VK12I-072-	FOKUS Research Module Type VK12I Interdisciplinary Research Fields										
m01	ECTS	12	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	S		weekly contact hours) · FOKUS Kompaktsemina	+ Ü/P (2 weekly contact ar Interdisziplinäre Fach German or English, det	hours), details on availab Igebiete (FOKUS Block Tau	oility to be announce Ight Seminar Interdis	sciplinary Research Fields): V (4 d sciplinary Research Fields): S (2 Ight seminar (3 days), usually held			
	Method of assessment			1. Topics covered in lea	tures and exercises: windidate each or oral exa	ritten examination (approx		k (approx. 30 minutes) or oral ex- oject report (approx. 8 pages)			
				Students must register Details on when assess	for assessment compo sment components 1 ar	ed in German or English. nents 1 and 2 online (deta Id 2 will be offered to be a assessment component 1	nnounced.				

11-FM-VK12T-072-	FOKUS Research Module Type VK12T Theoretical Physics										
m01	ECTS	12	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S	Ü FC G	/P (2 weekly contact hou OKUS Kompaktseminar T	urs), details on availa Theoretische Physik (bility to be announced	Theoretical Phys	ics): V (4 weekly contact hours) + sics): S (2 weekly contact hours), sually held during semester			
	Method	l of asse	1. 2. A: Si	amination of one candi . Seminar: talk (approx. ssessment components tudents must register for	res and exercises: wr date each or oral exa 30 to 45 minutes) 1 and 2 will be offere r assessment compo	itten examination (approx. 90 imination in groups (approx. 30 ed in German or English. nents 1 and 2 online (details to	o minutes) or pro				
				Details on when assessment components 1 and 2 will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2.							
11-FM-VM-	FOKUS Research Module Type VMK12E Experimental Physics										
K12E-072-m01	ECTS	12	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S	hi FC hi st FC	ours) + Ü/P (1 weekly col OKUS Kompaktseminar E ours), German or English ter break) OKUS Miniforschungspro	ntact hour), details o Experimentelle Physil I, details on availabil Djekt Experimentelle	,	ar Experimental F ught seminar (3 d Project Experime	Physics): S (2 weekly contact days), usually held during seme- ental Physics): P (2 weekly contact			
	Method of assessment			 This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral e amination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) 2. Seminar: talk (approx. 30 to 45 minutes) 3. Research project: project report (approx. 8 pages) 							
			St D	Assessment components 1 through 3 will be offered in German or English. Students must register for assessment components 1 through 3 online (details to be announced). Details on when assessment components 1 through 3 will be offered to be announced. To pass this module, students must pass each of the assessment components 1 through 3.							

11-FM-VM-	FOKUS Research Module Type VMK12I Interdisciplinary Research Fields											
K12l-072-m01	ECTS	12	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	25	We FC We du FC	eekly contact hours) + OKUS Kompaktseminar eekly contact hours), (uring semester break) OKUS Miniforschungsp	Ü/P (1 weekly contact r Interdisziplinäre Fach German or English, det rojekt Interdisziplinäre	hour), details on availabi gebiete (FOKUS Block Tai ails on availability to be a	ility to be announced ught Seminar Interdis announced (block tau ni Research Project In	sciplinary Research Fields): V (2 sciplinary Research Fields): S (2 ght seminar (3 days), usually held terdisciplinary Research Fields): P K. 3 weeks, part time)				
	Metho	d of ass	1. 2. 3. As St De	 This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) 2. Seminar: talk (approx. 30 to 45 minutes) 3. Research project: project report (approx. 8 pages) Assessment components 1 through 3 will be offered in German or English. Students must register for assessment components 1 through 3 online (details to be announced). Details on when assessment components 1 through 3 will be offered to be announced. To pass this module, students must pass each of the assessment components 1 through 3. 								
11-FM-VM-	FOKUS Research Module Type VKM12T Theoretical Physics											
K12T-072-m01	ECTS	12	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	25	Ü, FC Ge br FC	/P (1 weekly contact ho DKUS Kompaktseminal erman or English, deta reak) DKUS Miniforschungsp	our), details on availab Theoretische Physik (ils on availability to be rojekt Theoretische Ph	vility to be announced FOKUS Block Taught Sem e announced (block taugh	iinar Theoretical Phys It seminar (3 days), u ch Project Theoretical	ics): V (2 weekly contact hours) + ics): S (2 weekly contact hours), sually held during semester l Physics): P (2 weekly contact ne)				
	Metho	d of ass	1. 2. 3. As St De	Topics covered in lect amination of one can Seminar: talk (approx Research project: proj seessment component udents must register f etails on when assessi	didate each or oral exa . 30 to 45 minutes) ject report (approx. 8 p s 1 through 3 will be o or assessment compo ment components 1 th	itten examination (appro mination in groups (appr	ox. 30 minutes) or pr sh. (details to be announ be announced.	c (approx. 30 minutes) or oral ex- oject report (approx. 8 pages) ced).				

11-FM-VM-	FOKUS Research Module Type VMK13E Experimental Physics											
K13E-072-m01	ECTS	13	Duration	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	!S	hc FC hc st FC	 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 FOKUS Kompaktseminar Experimentelle Physik (FOKUS Block Taught Seminar Experimental Physics): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break) FOKUS Miniforschungsprojekt Experimentelle Physik (FOKUS Mini Research Project Experimental Physics): P (2 weekly contact hours), German or English, details on availability to be announced (approx. 3 weeks, part time) 								
	Metho	d of ass	1. 2. 3. As St De	 This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) 2. Seminar: talk (approx. 30 to 45 minutes) 3. Research project: project report (approx. 8 pages) Assessment components 1 through 3 will be offered in German or English. Students must register for assessment components 1 through 3 online (details to be announced). Details on when assessment components 1 through 3 will be offered to be announced. To pass this module, students must pass each of the assessment components 1 through 3. 								
11-FM-VM-	FOKUS Research Module Type VMK13I Interdisciplinary Research Fields											
K13l-072-m01	ECTS	13	Duration	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	!S	WG FC WG dL FC	eekly contact hours) DKUS Kompaktsemin eekly contact hours) uring semester break DKUS Miniforschungs	odul Interdisziplinäre Fachgebiete (FOKUS Intr) + Ü/P (1 weekly contact hour), details on ava nar Interdisziplinäre Fachgebiete (FOKUS Bloc), German or English, details on availability to k) (sprojekt Interdisziplinäre Fachgebiete (FOKUS Irs), German or English, details on availability	ilability to be announced k Taught Seminar Interdi be announced (block tau 6 Mini Research Project Ir	sciplinary Research Fields): S (2 Ight seminar (3 days), usually held Iterdisciplinary Research Fields): P					
	Metho	d of ass	1. 2. 3. As St De	Topics covered in le amination of one ca Seminar: talk (appro Research project: pro ssessment compone cudents must registe etails on when asses	Following assessment components ectures and exercises: written examination (ap andidate each or oral examination in groups (a rox. 30 to 45 minutes) project report (approx. 8 pages) ents 1 through 3 will be offered in German or E er for assessment components 1 through 3 onl ssment components 1 through 3 will be offere students must pass each of the assessment c	approx. 30 minutes) or pr nglish. ine (details to be annour d to be announced.	oject report (approx. 8 pages)					

11-FM-VM-	FOKUS Research Module Type VKM13T Theoretical Physics											
K13T-072-m01	ECTS	13	Duration	1 semester	Method of grading numerical g	rade	Modul level	graduate				
	Course	S	(FOKUS Einführungsmodul Theoretische Physik (FOKUS Introductory Module Theoretical Physics): V (3 weekly contact hours) + Ü/P (1 weekly contact hour), details on availability to be announced FOKUS Kompaktseminar Theoretische Physik (FOKUS Block Taught Seminar Theoretical Physics): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break) 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)								
				 This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) 2. Seminar: talk (approx. 30 to 45 minutes) 3. Research project: project report (approx. 8 pages) Assessment components 1 through 3 will be offered in German or English. Students must register for assessment components 1 through 3 online (details to be announced). Details on when assessment components 1 through 3 will be offered to be announced. To pass this module, students must pass each of the assessment components 1 through 3. 								
11-FM-VM-	FOKUS Research Module Type VMK14E Experimental Physics											
K14E-072-m01	ECTS	14	Duration	1 semester	Method of grading numerical g	rade	Modul level	graduate				
	Course	S	 	 FOKUS Einführungsmodul Experimentelle Physik (FOKUS Introductory Module Experimental Physics): V (3 weekly contact hours) + Ü/P (2 weekly contact hours), details on availability to be announced FOKUS Kompaktseminar Experimentelle Physik (FOKUS Block Taught Seminar Experimental Physics): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during sen ster break) FOKUS Miniforschungsprojekt Experimentelle Physik (FOKUS Mini Research Project Experimental Physics): P (2 weekly corr hours), German or English, details on availability to be announced (approx. 3 weeks, part time) 								
	Methoo	d of ass		 This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) 2. Seminar: talk (approx. 30 to 45 minutes) 3. Research project: project report (approx. 8 pages) Assessment components 1 through 3 will be offered in German or English. Students must register for assessment components 1 through 3 online (details to be announced). Details on when assessment components 1 through 3 will be offered to be announced. To pass this module, students must pass each of the assessment components 1 through 3. 								

11-FM-VM-	FOKUS Research Module Type VMK14I Interdisciplinary Research Fields											
K14l-072-m01	ECTS	14	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	is S	w FC w dt FC	eekly contact hours) + DKUS Kompaktseminar eekly contact hours), G uring semester break) DKUS Miniforschungspi	Ü/P (2 weekly contact Interdisziplinäre Fach erman or English, det rojekt Interdisziplinäre	hours), details on availa ngebiete (FOKUS Block Ta ails on availability to be	bility to be announce lught Seminar Interdis announced (block tau ni Research Project In	sciplinary Research Fields): S (2 ght seminar (3 days), usually held terdisciplinary Research Fields): P				
	Metho	d of ass	1. 2. 3. As 51	 This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) 2. Seminar: talk (approx. 30 to 45 minutes) 3. Research project: project report (approx. 8 pages) Assessment components 1 through 3 will be offered in German or English. Students must register for assessment components 1 through 3 online (details to be announced). Details on when assessment components 1 through 3 will be offered to be announced. To pass this module, students must pass each of the assessment components 1 through 3. 								
11-FM-VM-	FOKUS	Resear		ype VKM14T Theoretic		for the assessment com	solicitis i through j.					
K14T-072-m01	ECTS	14	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	25	Ü, FC Gi bi FC	/P (2 weekly contact ho DKUS Kompaktseminar erman or English, detai reak) DKUS Miniforschungspi	ul Theoretische Physik ours), details on availa Theoretische Physik (ils on availability to be rojekt Theoretische Ph	k (FOKUS Introductory Mo ability to be announced (FOKUS Block Taught Sen e announced (block taug)	ninar Theoretical Phys ht seminar (3 days), u ch Project Theoretical	ics): V (3 weekly contact hours) + ics): S (2 weekly contact hours), sually held during semester Physics): P (2 weekly contact ne)				
	Metho	d of ass	1. 2. 3. As 51	amination of one cand Seminar: talk (approx. Research project: proj ssessment components tudents must register fo etails on when assessn	ures and exercises: wi lidate each or oral exa . 30 to 45 minutes) ect report (approx. 8 p s 1 through 3 will be o or assessment compo nent components 1 th	ritten examination (appro amination in groups (app	rox. 30 minutes) or pr sh. (details to be announ be announced.	(approx. 30 minutes) or oral ex- oject report (approx. 8 pages) ced).				

11-FM-VM-	FOKUS	Resear	rch Module '	Type VMK16E Experir	nental Physics					
K16E-072-m01	ECTS	16	Duration	1 semester	Method of grading numerica	l grade	Modul level	graduate		
	Course	<u>.</u> !S	h F h s F	 FOKUS Einführungsmodul Experimentelle Physik (FOKUS Introductory Module Experimental Physics): V (4 weekly contact hours) + Ü/P (2 weekly contact hours), details on availability to be announced FOKUS Kompaktseminar Experimentelle Physik (FOKUS Block Taught Seminar Experimental Physics): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break) 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) 						
	Metho	d of ass	1 2 3 4 5 5 5	 This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) 2. Seminar: talk (approx. 30 to 45 minutes) 3. Research project: project report (approx. 8 pages) Assessment components 1 through 3 will be offered in German or English. Students must register for assessment components 1 through 3 online (details to be announced). Details on when assessment components 1 through 3 will be offered to be announced. To pass this module, students must pass each of the assessment components 1 through 3. 						
11-FM-VM-	FOKUS	Resea			ciplinary Research Fields					
K16l-072-m01	ECTS	16	Duration	1 semester	Method of grading numerica	l grade	Modul level	graduate		
	Course	!S	v F v d F	veekly contact hours) OKUS Kompaktsemir veekly contact hours) during semester breal OKUS Miniforschung	<)	etails on availability OKUS Block Taught ailability to be annou ete (FOKUS Mini Res	to be announce Seminar Interdis unced (block tau search 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 S C	Topics covered in le amination of one ca 2. Seminar: talk (appro 3. Research project: p Assessment compone Students must registe Details on when asses	ollowing assessment components ectures and exercises: written exam andidate each or oral examination i ox. 30 to 45 minutes) roject report (approx. 8 pages) ents 1 through 3 will be offered in G er for assessment components 1 thro ssment components 1 through 3 wi students must pass each of the ass	in groups (approx. 3 erman or English. rough 3 online (deta Il be offered to be a	o minutes) or pr ils to be announ nnounced.	oject report (approx. 8 pages)		

11-FM-VM-	FOKUS Research Module Type VKM16T Theoretical Physics										
K16T-072-m01	ECTS	16	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	.'S		Ü/P (2 FOKU Germa break FOKU	FOKUS Einführungsmodul Theoretische Physik (FOKUS Introductory Module Theoretical Physics): V (4 weekly contact hours) + Ü/P (2 weekly contact hours), details on availability to be announced FOKUS Kompaktseminar Theoretische Physik (FOKUS Block Taught Seminar Theoretical Physics): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break) FOKUS Miniforschungsprojekt Theoretische Physik (FOKUS Mini Research Project Theoretical Physics): P (2 weekly contact hours), German or English, details on availability to be announced (approx. 3 weeks, part time)						
	Methoo	d of ass	essment	 This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) 2. Seminar: talk (approx. 30 to 45 minutes) 3. Research project: project report (approx. 8 pages) Assessment components 1 through 3 will be offered in German or English. Students must register for assessment components 1 through 3 online (details to be announced). Details on when assessment components 1 through 3 will be offered to be announced. To pass this module, students must pass each of the assessment components 1 through 3. 							
11-FM-VK8N-072-	FOKUS	Resear	rch Modul			· · ·	I				
mo1	ECTS	8	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			hours FOKU) + Ü/P (1 weekly co S Kompaktseminar I), German or Englisl	ntact hour), details c Nanostrukturtechnik	n availability to be announce (FOKUS Block Taught Semina	d r Nanostructure T	echnology): V (2 weekly contact echnology): S (2 weekly contact days), usually held during seme-		
	Method of assessment			1. Top am 2. Ser	vics covered in lectu ination of one candi ninar: talk (approx.	res and exercises: w date each or oral exa 30 to 45 minutes)	ritten examination (approx. 90 amination in groups (approx. 9		(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									
m01	ECTS	9	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		hours) + Ü/P (1 weekly co FOKUS Kompaktseminar N	ntact hour), details o Ianostrukturtechnik	n availability to be announced (FOKUS Block Taught Seminar I	Nanostructure T	echnology): V (3 weekly contact echnology): S (2 weekly contact days), usually held during seme-		
	Method	d of asso	:	amination of one candi 2. Seminar: talk (approx. <u>3</u>	res and exercises: wr date each or oral exa 30 to 45 minutes)	itten examination (approx. 90 i 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-VK10N-072-	FOKUS Research Module Type VK10N Nanostructure Technology									
m01	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		hours) + Ü/P (2 weekly co FOKUS Kompaktseminar N	ntact hours), details Ianostrukturtechnik	on availability to be announce (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				res and exercises: wr date each or oral exa	nponents itten examination (approx. 90 i imination in groups (approx. 30		(approx. 30 minutes) or oral ex- ject report (approx. 8 pages)		
				Details on when assessme	r 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-VK12N-072-	FOKUS	Resear	ch Module T	ype VK12N Nanostructu	re Technology						
m01	ECTS	12	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S	ho FC ho	FOKUS Einführungsmodul Nanostrukturtechnik (FOKUS Introductory Module Nanostructure Technology): V (4 weekly contact hours) + Ü/P (2 weekly contact hours), details on availability to be announced FOKUS Kompaktseminar Nanostrukturtechnik (FOKUS Block Taught Seminar Nanostructure Technology): 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)							
	Methoo	d of asso	1. 2. A: 51 D	 This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) 2. Seminar: talk (approx. 30 to 45 minutes) Assessment components 1 and 2 will be offered in German or English. Students must register for assessment components 1 and 2 will be offered to be announced). 							
11-FM-VM-	FORUS	To pass this module, students must pass both assessment component 1 and assessment component 2. FOKUS Research Module Type VMK12N Nanostructure Technology									
K12N-072-m01	ECTS	12	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	I	FC FC FC St FC	DKUS Einführungsmodu ours) + Ü/P (1 weekly co DKUS Kompaktseminar I ours), German or Englisl er break) DKUS Miniforschungspro	l Nanostrukturtechnil ntact hour), details o Nanostrukturtechnik n, details on availabil ojekt Nanostrukturtee	k (FOKUS Introductory Module n availability to be announced (FOKUS Block Taught Seminar ity to be announced (block tau	Nanostructure T Nanostructure T ght seminar (3 o oject Nanostruc	echnology): V (2 weekly contact echnology): S (2 weekly contact days), usually held during seme- ture Technology): P (2 weekly con-			
	Method of assessment			 This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) 2. Seminar: talk (approx. 30 to 45 minutes) 3. Research project: project report (approx. 8 pages) Assessment components 1 through 3 will be offered in German or English. Students must register for assessment components 1 through 3 online (details to be announced). Details on when assessment components 1 through 3 will be offered to be announced. To pass this module, students must pass each of the assessment components 1 through 3. 							

11-FM-VM-	FOKUS Research Module Type VMK13N Nanostructure Technology											
K13N-072-m01	ECTS	13	Duration	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	!S	ho FC ho st FC	ours) + Ü/P (1 weekly OKUS Kompaktsemin ours), German or Eng ter break) OKUS Miniforschungs	odul Nanostrukturtechnik (FOKUS Introductory y contact hour), details on availability to be an nar Nanostrukturtechnik (FOKUS Block Taught glish, details on availability to be announced (sprojekt Nanostrukturtechnik (FOKUS Mini Res or English, details on availability to be announce	nounced Seminar Nanostructure ⁻ block taught seminar (3 search Project Nanostruc	Technology): S (2 weekly contact days), usually held during seme- cture Technology): P (2 weekly con-					
	Method	d of ass	1. 2. 3. As St	 This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) 2. Seminar: talk (approx. 30 to 45 minutes) 3. Research project: project report (approx. 8 pages) Assessment components 1 through 3 will be offered in German or English. Students must register for assessment components 1 through 3 online (details to be announced). Details on when assessment components 1 through 3 will be offered to be announced. To pass this module, students must pass each of the assessment components 1 through 3. 								
11-FM-VM-	FOKUS Research Module Type VMK14N Nanostructure Technology											
K14N-072-m01	ECTS	14	Duration	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	'S	ho FC ho st FC	ours) + Ü/P (2 weekly OKUS Kompaktsemin ours), German or Eng ter break) OKUS Miniforschungs	odul Nanostrukturtechnik (FOKUS Introductory ly contact hours), details on availability to be a nar Nanostrukturtechnik (FOKUS Block Taught glish, details on availability to be announced (sprojekt Nanostrukturtechnik (FOKUS Mini Res or English, details on availability to be announce	nnounced Seminar Nanostructure ⁻ block taught seminar (3 search Project Nanostruc	Technology): S (2 weekly contact days), usually held during seme- cture Technology): P (2 weekly con-					
	Methoo	d of ass	1. 2. 3. As St	Topics covered in le amination of one ca Seminar: talk (appro Research project: pr ssessment compone tudents must registe etails on when asses	following assessment components ectures and exercises: written examination (ap andidate each or oral examination in groups (a rox. 30 to 45 minutes) project report (approx. 8 pages) ents 1 through 3 will be offered in German or Er er for assessment components 1 through 3 onli ssment components 1 through 3 will be offered students must pass each of the assessment com	approx. 30 minutes) or pr nglish. ine (details to be annour d to be announced.	roject report (approx. 8 pages)					

11-FM-VM-	FOKUS Research Module Type VMK16N Nanostructure Technology												
K16N-072-m01	ECTS	16	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	?S		hours) FOKUS hours) ster br FOKUS	FOKUS Einführungsmodul Nanostrukturtechnik (FOKUS Introductory Module Nanostructure Technology): V (4 weekly contact hours) + Ü/P (2 weekly contact hours), details on availability to be announced FOKUS Kompaktseminar Nanostrukturtechnik (FOKUS Block Taught Seminar Nanostructure Technology): 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) FOKUS Miniforschungsprojekt Nanostrukturtechnik (FOKUS Mini Research Project Nanostructure Technology): P (2 weekly con- tact hours), German or English, details on availability to be announced (approx. 3 weeks, part time)								
	Metho	d of ass		 This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) 2. Seminar: talk (approx. 30 to 45 minutes) 3. Research project: project report (approx. 8 pages) Assessment components 1 through 3 will be offered in German or English. Students must register for assessment components 1 through 3 online (details to be announced). Details on when assessment components 1 through 3 will be offered to be announced. To pass this module, students must pass each of the assessment components 1 through 3. 									
Compulsory Electi	tives Non-technical (6 ECTS credits)												
41-IK-NW1-072-	Basic r	nodule:	Competer	ice for	Acquiring Inform	mation - for students of	natural sciences						
m01	ECTS	1	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate				
	Course	es		Ü (no information on SWS (weekly contact hours) and course language available)									
	Metho	d of ass	essment	written examination (60 minutes)									
41-IK-NW2-072-	Second	d modul	le: Compet	tence for Acquiring Information - for students of natural sciences									
m01	ECTS 2 Duratio			1 I	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			written examination (60 minutes)									

42-FS3-EN_N- W1-072-m01	ECTS 11 Duratio	n 1 semester Method of grading numerical grade Modul level undergraduate					
	Courses	 This module has 3 components; information on courses listed separately for each component. 42-FS3-EN_V1-072: Ü (no information on language and number of weekly contact hours available) 42-FS3-EN_NW-1-072: Ü (no information on language and number of weekly contact hours available) 42-FS3-EN_NW-2-072: Ü + Ü (no information on language and number of weekly contact hours available) 					
	Method of assessment	This module has the following 3 assessment components. To pass the module as a whole students must pass the first as- sessment component and one of the remaining two.					
		 Assessment component to module component 42-FS3-EN_V1-072: Vorbereitung auf die Fachsprache Englisch 3 ECTS credits, method of grading: numerical grade Option 1: written multi-component examination (60 minutes total) with 4 components (reading comprehension, listening comprehension, writing, communication skills) or option 2: oral assessment (approx. 5 minutes) and written multi-component examination (30 to 45 minutes total) with 3 components (reading comprehension, listening comprehension, writing) or option 3: 2 to 4 oral assessments (approx. 15 to 30 minutes total) as well as 2 to 4 written assessments (approx. 5 to 8 pages total) as specified at the beginning of the course, all components/assessments each weighted 1:1. Language of assessment: English Assessment component to module component 42-FS3-EN_NW-1-072: Englisch III Fachsprache Naturwissenschaften intensiv 8 ECTS credits, method of grading: numerical grade option 1: written multi-component examination (120 minutes total) with 4 components (reading comprehension, listening comprehension, writing, communication skills) or option 2: oral assessment (approx. 10 minutes) and written multi-component examination (50 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) as specified at the beginning of the course, all components/assessments each weighted 1:1 Assessment tomodule component 42-FS3-EN_NW-2-072: Englisch III Fachsprache Naturwissenschaften each weighted 1:1 Assessments (approx. 10 to 15 pages total) as specified at the beginning of the course, all components/assessments each weighted 1:1 Assessment to module component 42-FS3-EN_NW-2-072: Englisch III Fachsprache Naturwissenschaften 8 ECTS credits, method of grading: numerical grade option 1					
		 each weighted 1:1 Assessment offered once a year, dates to be announced at the beginning of the respective course. Language of assessment: English 					
	Modules successfully completed	42-UC2-EN or assessment test (at least 80 points)					

42-FS3-EN_N-	ECTS 8 Duratio			n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
W2-072-m01	Courses Method of assessment			 This module has 2 components; information on courses listed separately for each component. 42-FS3-EN_NW-1-072: Ü (no information on language and number of weekly contact hours available) 42-FS3-EN_NW-2-072: Ü + Ü (no information on language and number of weekly contact hours available) 						
				Asses	ssment component of 8 ECTS credits, me option 1: written n stening comprehen multi-component of prehension, writin assessments (app each weighted 1:1 Assessment offere Language of asses	to module component ethod of grading: num nulti-component exan nsion, writing, commu examination (60 to 90 g) or option 3: 2 to 4 prox. 10 to 15 pages tot ed once a year, dates to ssment: English	erical grade nination (120 minutes total) w nication skills) or option 2: or o minutes total) with 3 compo oral assessments (approx. 30	with 4 componen al assessment (a onents (reading o o to 60 minutes ing of the course ning of the respe		
	Modul	es succe	essfully	•	8 ECTS credits, me option 1: written n stening comprehen multi-component of prehension, writin assessments (app each weighted 1:1 Assessment offere Language of asses	ethod of grading: num nulti-component exan nsion, writing, commu examination (60 to 90 og) or option 3: 2 to 4 prox. 10 to 15 pages tot ed once a year, dates t	erical grade nination (120 minutes total) w inication skills) or option 2: or o minutes total) with 3 compo oral assessments (approx. 30 al) as specified at the beginni o be announced at the beginr	vith 4 componen al assessment (a onents (reading o o to 60 minutes ing of the course	ts (reading comprehension, li- ipprox. 10 minutes) and written comprehension, listening com- total) as well as 2 to 4 written , all components/assessments	
	comple		essiully	42-53			JIII(5)			

42-FS3-FR_N- W1-072-m01	ECTS 11 Durati	on 1 semester Method of grading numerical grade Modul level undergraduate				
	Courses	 This module has 3 components; information on courses listed separately for each component. 42-FS3-FR_V-1-072: Ü (no information on language and number of weekly contact hours available) 42-FS3-FR_NW-1-072: Ü (no information on language and number of weekly contact hours available) 42-FS3-FR_NW-2-072: Ü + Ü (no information on language and number of weekly contact hours available) 				
	Method of assessmen	This module has the following 3 assessment components. To pass the module as a whole students must pass the first as- sessment component and one of the remaining two.				
		 Assessment component to module component 42-FS3-FR_V-1-072: Vorbereitung auf die Fachsprache Französisch 3 ECTS credits, method of grading: numerical grade Option 1: written multi-component examination (60 minutes total) with 4 components (reading comprehension, listening comprehension, writing) or option 3: 0 to 45 minutes total) with 3 components (reading comprehension, listening comprehension, writing) or option 3: 2 to 4 oral assessments (approx. 15 to 30 minutes total) as well as 2 to 4 written assessments (approx. 5 to 8 pages total) as specified at the beginning of the course, all components/assessments each weighted 1:1. Language of assessment: French Assessment component to module component 42-FS3-FR_NW-1-072: Französisch III Fachsprache Naturwissenschaften intensiv 8 ECTS credits, method of grading: numerical grade option 1: written multi-component examination (120 minutes total) with 4 components (reading comprehension, listening comprehension, writing), communication skills) or option 2: oral assessment (approx. 10 minutes) and written multi-component examination (120 minutes total) with 4 components (reading comprehension, listening comprehension, writing, communication skills) or option 2: oral assessment (approx. 10 minutes) and written multi-component examination (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 multi-component examination skills or option 2: oral assessment (approx. 10 minutes) and written multi-component examination (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) as specified at the beginning of the course, all components/assessments each weighted 1:1 Assessment				
		 option 1: written multi-component examination (120 minutes total) with 4 components (reading comprehension, listening comprehension, writing, communication skills) or option 2: oral assessment (approx. 10 minutes) and written multi-component examination (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) as specified at the beginning of the course, all components/assessments each weighted 1:1 Assessment offered once a year, dates to be announced at the beginning of the respective course. Language of assessment: French 				
	Modules successfully completed	42-UC2-FR or assessment test (at least 80 points)				

42-FS3-FR_N- W2-072-m01	ECTS 8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses		 This module has 2 components; information on courses listed separately for each component. 42-FS3-FR_NW-1-072: Ü (no information on language and number of weekly contact hours available) 42-FS3-FR_NW-2-072: Ü + Ü (no information on language and number of weekly contact hours available) 						
	Method of as	sessment	This module has the following 2 assessment components. To pass the module as a whole students must pass one of the two assessment components.						
			 Assessment component to module component 42-FS3-FR_NW-1-072: Französisch III Fachsprache Naturwissenschaften intensiv 8 ECTS credits, method of grading: numerical grade option 1: written multi-component examination (120 minutes total) with 4 components (reading comprehension, listening comprehension, writing, communication skills) or option 2: oral assessment (approx. 10 minutes) and written multi-component examination (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) as specified at the beginning of the course, all components/assessments each weighted 1:1 Assessment offered once a year, dates to be announced at the beginning of the respective course. Language of assessment: French Other prerequisites: Assessment test to be successfully completed with a minimum score of 85 points. Assessment component to module component 42-FS3-FR_NW-2-072: Französisch III Fachsprache Naturwissenschaften 8 ECTS credits, method of grading: numerical grade option 1: written multi-component examination (120 minutes total) with 4 components (reading comprehension, listening comprehension, writing) or option 3: 2 to 4 oral assessments (approx. 30 to 60 minutes) and written multi-component examination skills) or option 2: oral assessment (approx. 10 minutes) and written multi-component examination skills) as specified at the beginning of the course, all comprehension, listening comprehension, writing communication skills or option 2: oral assessment (approx. 10 minutes) and written multi-component examination (50 to 90 minutes total) with 4 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) as specified at the beg						
	other prerequ	uisites	By way	/ of exception, add	litional prerequisites a	are listed in the section o	on assessments.		
Thesis (30 ECTS	credits)								
11-MA-NF-072-m	Master Thesi	s FOKUS N	anostru	cturing Technolog	gy				
	ECTS 30	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses		no courses assigned						
	Method of as	sessment	written thesis (approx, 75 pages)						

1	Method of assessment	written thesis (approx. 75 pages)
		Language of assessment: German or English
(, ,	Registration for assessment to be carried out electronically. Deadlines will be announced separately. Please consult with your supervisor.

Master's with 1 major FOKUS Physics - Nanostructuring Technology (2006)	JMU Würzburg • generated 11-Jan-2023 • exam. reg. data record 88/e06/- - H 2006	page 27 / 27
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