



Annex SFB

Studienfachbeschreibung (subject description, SFB) for the subject Nanostructure Technology as a Bachelor's with 1 major with the degree "Bachelor of Science" (180 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:

ASP02009

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

20-Jan-2011 (2011-9)

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	Du	ration	(in semesters)	Method of grading		Module level				
	Courses		To be sp	o be specified in the form X (y) with course type X abbreviated as specified above and number of weekly contact hours y							
	Method of as	ssessmen	:								
		Only after successful completion of		fapplicable							
	Other prerequisites		if applica	if applicable							
	Participants and allocati- on of places		iti- if applica	if applicable							
	Additional information		if applica	if applicable							
	Referred to in	n LPO I	if applica	able (examination r	egulations for teaching	g-degree programmes)					

Compulsory Cours	es (105 E	CTS cre	dits)									
Nanostructure Tec	hnology	(12 ECT	S credits)									
11-EIN-092-m01	Introdu	uction to	Nanosci	ence								
	ECTS	6	Duration	า	2 semester	Method of grading	numerical grade		Modul level	undergraduate		
	Course	S		V + S	/ + S (no information on SWS (weekly contact hours) and course language available)							
	Methoo	d of ass	essment	writte speci		pprox. 120 minutes, for	modules with less	than 4 ECTS	credits approx.	. 90 minutes; unless otherwise		
	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.								
	Participants and allo- cation of places			Onlya	as part of pool of	general key skills (ASQ)	: 15 places. Places	will be alloc	cated by lot.			
11-FON-092-m01	Advanced Nano Sciences											
	ECTS 6 Duratio		า	1 semester	Method of grading	numerical grade		Modul level	undergraduate			
	Courses			V + S (no information on SWS (weekly contact hours) and course language available)								
	Methoo	Method of assessment			written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 20 minutes) or oral ex- amination in groups (groups of 2, approx. 30 minutes)							
	Modules successfully completed			11-EIN								
	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.								

Lab Course Physics (11 ECTS credits) Modules from the area Physikalisches Praktikum (Physics Practical Course) will not factor into the overall grade of the Bachelor's degree. Students must complete module 11-P-PA prior to completing module 11-P-PB-N.

11-P-PB-N-092-	Basic Practical Course B (Nanostructure Technology)												
m01	ECTS 6	Duration	1 semester	Method of grading (not) successfully completed Modul level undergraduate									
	Courses		Elektrizitätslehre und Sc Wellenoptik (Physical Oj Atom- und Kernphysik (#	assical Physics, KLP): P (2 weekly contact hours) Schaltungen (Electricity and Circuits, ELS): P (2 weekly contact hours) Optics, WOP): P (2 weekly contact hours) & (Atomic and Nuclear Physics, AKP): P (2 weekly contact hours) echnik (Computers and Measurement Technology, CMT): P (2 weekly contact hours)									
	Method of ass		 This module has the following assessment components 1. Lab course in part 1: a) Preparing, performing and evaluating the experiments will be considered successfully complete Testat (exam) is passed. b) Talk (with discussion) to test the students' understanding of the physics-related contents course (approx. 30 minutes). 2. Lab course in part 2: a) Preparing, performing and evaluating the experiments will be considered successfully complete a Testat (exam) is passed. b) Talk (with discussion) to test the students' understanding of the physics-related contents a Testat (exam) is passed. b) Talk (with discussion) to test the students' understanding of the physics-related content the course (approx. 30 minutes). Students must register for assessment components 1 and 2 online (registration deadline to be announced). Students will be offered one opportunity to retake element a) and/or element b). To pass an assessment component, the must pass both elements a) and b). To pass this module, students must successfully complete two out of the five courses. Students must take exactly one course each in the areas KLP and ELS as well as one course in the areas WOP, AKP and Students must attend KLP or ELS courses prior to attending WOP, AKP or CMT courses. 										
	Modules succ completed	essfully	11-P-PA	students must pass both assessment component 1 and assessment component 2.									
	Referred to in		§ 53 (1) 1. b) Physik Aufb § 53 (1) 1. c) Physik phys	nysikalische Grundpraktika ortgeschrittene Experimentalphysik"									

11-P-PA-092-m01	Practic	al Cour	rse A									
	ECTS	5	Duration	1 sem	nester	Method of g	grading	(not) succes	sfully comp	oleted	Modul level	undergraduate
	Course	S		contact hou	r), once a ye ıs Mechanil	ear (winter sem	ester)					eekly contact hour) + Ü (1 weekly mics and Electricity, BAM): P (2
	Method of assessment			 Topics cor Lab cours (exam) is 	vered in lec e: a) Prepa	Talk (with discu	cises: writ g and eva	ten examina luating the e	experiment	s will be	considered s	uccessfully completed if a Testat sics-related contents of the course
				Successful completion of approx. 50% of practice work is a prerequisite for admission to assessment component 1. To pass assessment component 2, students must pass both elements a) and b). Students will be offered one opportunity to retake element a) and/or element b). Students must register for assessment components 1 and 2 online (details to be announced). Students must attend Auswertung von Messungen und Fehlerrechnung (Measurements and Data Analysis) before attending Beispiele aus Mechanik, Wärmelehre und Elektrik (Examples from Mechanics, Thermodynamics and Electricity). To pass this module, students must pass both assessment component 1 and assessment component 2.								vill be offered one opportunity to I). Data Analysis) before attending nics and Electricity).
	Referre	d to in I		 § 53 (1) 1. a) Physik Mechanik, Wärmelehre, Elektrizitätslehre, Optik, der speziellen Relativitätstheorie § 53 (1) 1. c) Physik physikalische Grundpraktika § 77 (1) 1. d) Physik "physikalische Praktika" 								
	sted in p tudying	oarticipa in the N	ating in the Aaster's pro	FOKUS prog ogramme FO	gramme, mo KUS, will be	odules 11-TQM-I e offered in the	form of a	block cours	e between	the lectu	ire periods of	ponent 11-TQM-F-2, which will pre- the winter and summer semesters
11-MPI3-062-m01	Mather	matics	3 for stude	nts of Physic	cs and Engi	ineering						
	ECTS	8	Duration		nester	Method of g		-			Modul level	undergraduate
	Course	S		V + Ü (no inf	formation o	n SWS (weekly	contact h	ours) and co	ourse langu	lage ava	ilable)	
	Method of assessment other prerequisites			written examination (approx. 120 minutes)								
				to qualify fo course. Regi obtained the for assessm	r admissior istration for e qualificati ent into effo	n to assessment r the course will ion for admissio fect. Students w	t. The lect be consion to asse tho meet a	turer will inf dered a dec essment ove all prerequis	orm studen laration of ver the cours sites will be	nts about will to se se of the e admitte	the respective ek admission semester, the ed to assessm	Certain prerequisites must be met ve details at the beginning of the n to assessment. If students have e lecturer will put their registration nent in the current or in the subse- n for admission to assessment an-

11-STE-092-m01	Statist	ical Me	chanics, T	hermodynamics and Ele	ectrodynamics		
	ECTS	16	Duration	2 semester	Method of grading numerical grade	Modul level	undergraduate
	Course	!S		weekly contact hours),	und Thermodynamik (Statistical Mechanics and T once a year (winter semester) namik (Theoretical Electrodynamics): V (4 weekly r)		
	Metho	d of ass		 Topics covered in lea Thermodynamics)): v Topics covered in lea amination (approx. 1) Topics covered in lease 	llowing assessment components ctures and exercises in part 1 (Statistische Mecha written examination (approx. 120 minutes). ctures and exercises in part 2 (Theoretische Elektr 120 minutes). ctures and exercises in parts 1 and 2: oral examina- rritten examination (approx. 120 minutes).	odynamik (Theoretic	al Electrodynamics)): written ex-
				Successful completion 2. Students are highly red and Thermodynamics) courses will be covered Students must register To pass this module, s The grade achieved in	nt 3 will be offered in German; English if agreed up of approx. 50% of practice work each is a prerequ commended to attend both courses Statistische <i>N</i> and Theoretische Elektrodynamik (Theoretical Ele d in assessment component 3. for assessment components 1 through 3 online (tudents must first pass assessment component 1 assessment component 1 or 2 (whichever is bette wards the overall grade awarded for the module.	uisite for admission t Mechanik und Thermo ectrodynamics). The t details to be annound or 2 and must then p	o assessment components 1 and odynamik (Statistical Mechanics opics discussed in these two ced). bass assessment component 3.
	other p	rerequi	isites	10-M1-PHY and 10-M2-	PHY or 10-M1-NST and 10-M2-NST		

-	Theoretical Mechanics and Quantum Mechanics for FOKUS Students												
	ECTS	16	Duratior	2 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Course	25		semester) Quantenmechanik für	FOKUS-Studierende (Qu	antum Mechanics for FOk	KUS Students): V (4 w	ntact hours), once a year (winter eekly contact hours) + Ü (2 wee- ak between summer and winter					
	Method	d of asse	essment	 Semester) This module has the following assessment components 1. Topics covered in lectures and exercises in part 1 (Theoretische Mechanik (Theoretical Mechanics)): written exam (approx. 120 minutes). 2. Topics covered in lectures and exercises in part 2 (Quantenmechanik für FOKUS-Studierende (Quantum Mechanic KUS Students)): written examination (approx. 120 minutes). 3. Topics covered in lectures and exercises in parts 1 and 2: oral examination of one candidate each (approx. 30 mir usually chosen) or written examination (approx. 120 minutes). Successful completion of approx. 50% of practice work each is a prerequisite for admission to assessment component 2. To qualify for admission to assessment component 3, students must pass assessment component 1 and/or 2. Studentshylv recommended to attend both courses Theoretische Mechanik (Theoretical Mechanics) and Quantenmechanik KUS-Studierende (Quantum Mechanics for FOKUS Students). The topics discussed in these two courses will be cover sessment component 3. 									
				To pass this module, s The grade achieved in	tudents must first pass assessment componen		1 or 2 and must then p er) and the grade ach	bass assessment component 3. ieved in assessment component 3					
	Module comple	es succe eted	essfully	10-M-PHY1 and 10-M-P	HY2 or 10-M-NST1 and 1	o-M-NST2 and 11-TQM-1, 2	11-KP						
	Additio	onal Info	rmation			er's degree programme m tead of Quantenmechanik		chanik für FOKUS-Studierende cs).					

10-M-NST12-092-													
m01	ECTS	16	Duratio	n 2 semester	Method of grading numerical grade	Modul level	undergraduate						
	Course	25		 10-M-NST12-1-0 	 This module comprises 2 module components. Information on courses will be listed separately for each module component. 10-M-NST12-1-092: V + Ü (no information on SWS (weekly contact hours) and course language available) 10-M-NST12-2-092: V + Ü (no information on SWS (weekly contact hours) and course language available) 								
	Metho	d of ass	sessment	Assessment in this me	odule comprises the assessments in the individ cessful completion of the module will require su	lual module component	s as specified below. Unless						
				 1 for students of Nano 8 ECTS, Method written examination 20 minutes) or Language of as Other prerequists students about a declaration or assessment ov dents who meet assessment at Assessment in moduling 2 for students of Nano 	d of grading: (not) successfully completed ation (approx. 90 to 120 minutes, usually chose oral examination in groups (groups of 2, approx seessment: German, English if agreed upon with sites: Certain prerequisites must be met to qualif t the respective details at the beginning of the of will to seek admission to assessment. If stude yer the course of the semester, the lecturer will et all prerequisites will be admitted to assessm a later date, students will have to obtain the qua- le component 10-M-NST12-2-092: Mathematics	en) or oral examination of (, 30 minutes) the examiner fy for admission to asses course. Registration for ents have obtained the put their registration for thent in the current or in calification for admission	of one candidate each (approx. ssment. The lecturer will inform the course will be considered qualification for admission to or assessment into effect. Stu- the subsequent semester. For n to assessment anew.						
				 written examination 20 minutes) or Language of as Other prerequists students about a declaration or assessment ov dents who meet assessment at 	ation (approx. 90 to 120 minutes, usually chose oral examination in groups (groups of 2, approx sessment: German, English if agreed upon with sites: Certain prerequisites must be met to qualif t the respective details at the beginning of the of will to seek admission to assessment. If study ere the course of the semester, the lecturer will et all prerequisites will be admitted to assessment a later date, students will have to obtain the quali-	k. 30 minutes) the examiner fy for admission to asses course. Registration for ents have obtained the put their registration for ent in the current or in alification for admission	ssment. The lecturer will inform the course will be considered qualification for admission to or assessment into effect. Stu- the subsequent semester. For						
	other p	orerequ	isites	By way of exception, a	additional prerequisites are listed in the section	on assessments.							

11-TPN-092-m01	Theore	tical Ph	ysics 1 an	d 2 Nanostructure Tec	hnology (Mechanics, Qu	nics, Quantum Mechanics, Electrodynamics, Thermodynamics, Statistical Physics)					
	ECTS	16	Duration	2 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S						e, Nanostructure Technology)): V			
				(4 weekly contact hours) + Ü (2 weekly contact hours), once a year (summer semester) Theoretische Physik 2 (Lehramt, Nanostrukturtechnik) (Theoretical Physics 2 (Teaching Degree, Nanostructure Technology)): V (4 weekly contact hours) + Ü (2 weekly contact hours), once a year (winter semester)							
	Methoo	d of ass		 Topics covered in la prox. 120 minutes, Topics covered in la prox. 120 minutes, Topics covered in la usually chosen) or 	usually chosen) or oral e ectures and exercises in usually chosen) or oral e ectures and exercises in written examination (app	part 1 (Theoretische P examination of one ca part 2 (Theoretische F examination of one ca parts 1 and 2: oral exa prox. 120 minutes).	ndidate each (approx. 30 Physik 2 (Theoretical Physi ndidate each (approx. 30 amination of one candidat	cs 2)): written examination (ap- minutes). e each (approx. 30 minutes,			
				2. To qualify for admissi highly recommended cal Physics 2). The to Students must registe To pass this module, The grade achieved ir	on to assessment comporto attend both courses T pics discussed in these t or for assessment comports students must first pass	onent 3, students mus heoretische Physik 1 wo courses will be co nents 1 through 3 onl assessment compone t 1 or 2 (whichever is l	st pass assessment comp (Theoretical Physics 1) and vered in assessment com ine (details to be annound ent 1 or 2 and must then p better) and the grade achi				
	Referre	d to in l	LPO I	§ 77 (1) 1. c) Physik "T	heoretische Physik"						

Chemistry (10 ECTS credits)												
08-CP1-102-m01	Genera	al Chem	istry for P	hysics	and Engineers							
	ECTS	ECTS 10 Duration			1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	_		 This module comprises 3 module components. Information on courses will be listed separately for each module component. 08-IOC-1-072: V (no information on SWS (weekly contact hours) and course language available) 08-CP1-3-072: P (no information on SWS (weekly contact hours) and course language available) 08-CP1-1-102: V (no information on SWS (weekly contact hours) and course language available) 								
	Metho	d of ass	essment	stated Asses engine Asses Asses	I otherwise, success sment in module co eering and natural s 3 ECTS, Method of g written examination sment in module co 2 ECTS, Method of g for each experimer mance (log, 2 to 5 p Assessment offered Only after successf prerequisite for par sment in module co 5 ECTS, Method of g	ful completion of the mponent o8-IOC-1-o cience grading: numerical g n (approx. 60 minute mponent o8-CP1-3-c grading: (not) succes nt: Vortestate (pre-ex bages), Nachtestate d: once a year, summ ul completion of mod ticipation in module	rade es) 972: General and Analytical Che ssfully completed cperiment exams, approx. 10 m (post-experiment exams, appro ner semester dule components: Successful co component o8-CP1-3. 02: Principles of Inorganic Cher rade	Il completion of ents of medicino emistry (lab) ninutes each), a ix. 10 minutes e ompletion of mo	all individual assessments. e, biomedicine, dental medicine, ssessment of practical perfor- ach) odule component o8-CP1-1 is a			

Experimental Phy 11-KP-092-m01				anics,	Thermodynamics	, Waves, Oscillations, El	ectricity, Magnetism and Op	otics)			
	ECTS	ECTS 16 Duration			2 semester	Method of grading r		Modul level	undergraduate		
	Courses			Klassische Physik 1 (Mechanik, Wellen, Wärme) (Classical Physics 1 (Mechanics, Waves, Heat)): V (4 weekly contact hours) + Ü (2 weekly contact hours), once a year (winter semester) Klassische Physik 2 (Elektromagnetismus, Optik) (Classical Physics 2 (Electromagnetism, Optics)): V (4 weekly contact hours) + Ü (2 weekly contact hours), once a year (summer semester)							
	Metho	Method of assessment			ics covered in lec minutes). ics covered in lec minutes). ics covered in lec	tures and exercises in pa	art 1 (Klassische Physik 1 (Cla art 2 (Klassische Physik 2 (Cl arts 1 and 2: oral examination	assical Physics 2): written examination (approx.)): written examination (approx. te each (approx. 30 minutes,		
				Succe 2. To qua highly sics 2 Stude To pas The gr	essful completion alify for admission v recommended to). The topics discu- nts must register ss this module, st rade achieved in a	of approx. 50% of praction to assessment compone attend both courses Kla ussed in these two cours for assessment compone udents must first pass as	ent 3, students must pass a assische Physik 1 (Classical F es will be covered in assessi ents 1 through 3 online (deta ssessment component 1 or 2 1 or 2 (whichever is better) ar	te for admission t ssessment comp Physics 1) and Kla ment component ails to be annound and must then p	o assessment components 1 and onent 1 and/or 2. Students are assische Physik 2 (Classical Phy- 3.		
	other	orerequi	sites	Bridge	e course Mathema	itische Rechenmethoder	n der Physik (Mathematical N	Methods of Physic	cs) for first-semester students.		

11-KM-092-m01	Conde	nsed Ma	atter (Qua	nta, Atoms	, Molecules, S	olid State Physics)						
	ECTS	16	Duratio	1 2 SE	emester	Method of grading	g numerical grade	Modul level	undergraduate			
	Course	!S		hours) + Ü Kondensie	Kondensierte Materie 1 (Quanten, Atome, Moleküle) (Condensed Matter 1 (Quanta, Atoms, Molecules)): V (4 weekly contact nours) + Ü (2 weekly contact hours), once a year (winter semester) Kondensierte Materie 2 (Festkörperphysik 1) (Condensed Matter 2 (Solid State Physics)): V (4 weekly contact hours) + Ü (2 veekly contact hours), once a year (summer semester)							
	Metho	d of ass	essment	 weekly contact hours), once a year (summer semester) This module has the following assessment components 1. Topics covered in lectures and exercises in part 1 (Kondensierte Materie 1 (Condensed Matter 1)): written examination prox. 120 minutes). 2. Topics covered in lectures and exercises in part 2 (Kondensierte Materie 2 (Condensed Matter 2)): written examination prox. 120 minutes). 3. Topics covered in lectures and exercises in parts 1 and 2: oral examination of one candidate each (approx. 30 minutes usually chosen) or written examination (approx. 120 minutes). Assessment component 3 will be offered in German; English if agreed upon with examiner(s). Successful completion of approx. 50% of practice work each is a prerequisite for admission to assessment component 3. To qualify for admission to assessment component 3, students must pass assessment component 1 and/or 2. Students a highly recommended to attend both courses Kondensierte Materie 1 (Condensed Matter 1) and Kondensierte Materie 2 (Condensed Matter 2). The topics discussed in these two courses will be covered in assessment component 3. 								
				To pass th The grade	is module, stu achieved in as	idents must first pas ssessment compone	s assessment component :	1 or 2 and must then p ter) and the grade achie	ass assessment component 3. eved in assessment component 3			

Compulsory Electives (45 ECTS credits)

The area of mandatory electives comprises the following module areas: "Vertiefungszweig Elektronik und Photonik" ("Specialisation Electronics and Photonics"; VEP), "Vertiefungszweig Life Science" ("Specialisation Life Science"; VLS), "Vertiefungszweig Energie- und Materialforschung" ("Specialisation Energy and Materials Research"; VEM), "Vertiefungsbereich Analytik und Messtechnik" ("Specialisation Analytics and Measurement Technology"; VA), "Ingenieurwissenschaftliches Praktikum" ("Engineering Practical Course"; IWP) and "Computergestütztes Arbeiten" ("Computer-based Skills"; CA). Students must successfully complete: no less than two modules worth a total of no less than 10 ECTS credits in one of the specialisations (Vertiefungszweige), no less than one module worth no less than 5 ECTS credits in another specialisation, no less than one module worth no less than 5 ECTS credits in area CA or area IWP as well as no less than two additional modules in the area of mandatory electives.

Electronics and Photonics

11-BXN5-112-m01	Current Topics	Current Topics in Nanostructure Technology											
	ECTS 5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate						
	Courses	Courses V + R (no information on SWS (weekly contact hours) and course language available)											
	Method of asse	pro		idate) or c) project re (approx. 30 minutes)	eport (approx. 8 to 10 pages, tin		r oral examination in groups (ap- 1 to 4 weeks) or d) presentati-						
	other prerequisites Approval by examination committee required.												

Deskelanderwith a major Nenestructure Technology (2010)	IMILWijrzburg • generated 26-Aug-2024 • exam, reg. data record 82/224-1-1H12010	manadali
Bachelor's with 1 major Nanostructure Technology (2010)	JMU Würzburg • generated 26-Aug-2024 • exam. reg. data record 82 224 - - H 2010	page 12 / 46

11-BXN6-112-m01	Curren	Current Topics in Nanostructure Technology												
	ECTS	6	Duratio	<u></u> า	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Course	S		V + R	no information or	1 SWS (weekly contact	hours) and course language av	/ailable)						
	Methoo	d of ass	essment	prox. on/se	a) written examination (approx. 120 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Language of assessment: German, English									
	other p	rerequi	sites	Appro	oval by examinatio	on committee required.								
11-BXN8-112-m01	Curren	t Topics	in Nanos	tructu	re Technology									
	ECTS 8 Duratio			1	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Course	S		V + R	(no information or	SWS (weekly contact	hours) and course language av	/ailable)						
	Methoo	Method of assessment			a) written examination (approx. 120 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentati- on/seminar presentation (approx. 30 minutes) Language of assessment: German, English									
	other p	other prerequisites			val by examinatio	on committee required.								
11-ASL-092-m01	Applied Superconduction													
	ECTS	6	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	S		R + V (no information on SWS (weekly contact hours) and course language available)										
	Method	d of ass	essment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, 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	tive d on to the le sessn	etails at the begin assessment. If stu cturer will put the nent in the current	ning of the course. Reg udents have obtained th ir registration for asses	gistration for the course will be he qualification for admission sment into effect. Students wh	considered a de to assessment c to meet all prere	form students about the respec- eclaration of will to seek admissi- over the course of the semester, quisites will be admitted to as- ents will have to obtain the quali-					

11-HLF-092-m01	Semico	onducto	r Lasers -	Princip	oles and Current Re	search						
	ECTS	6	Duratior	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	s		R + V ((no information on	SWS (weekly contact	hours) and course language av	ailable)				
	Methoo	l of ass	essment	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	orerequi	sites	tive de on to a the lee sessm	etails at the beginn assessment. If stud cturer will put their	ing of the course. Reg lents have obtained t registration for asses or in the subsequent s	gistration for the course will be he qualification for admission t ssment into effect. Students wh	considered a de to assessment c o meet all prere	form students about the respec- eclaration of will to seek admissi- over the course of the semester, quisites will be admitted to as- ents will have to obtain the quali-			
11-AHL-092-m01	Applied Semiconductor Physics											
	ECTS	6	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		R + V ((no information on	SWS (weekly contact	hours) and course language av	ailable)				
	Methoo	1 of ass	essment	prox. to 10 p Asses nounc 2009.	30 minutes per can pages, time to comp sment offered: Whe ced in due form und	didate, for modules v plete: 1 to 4 weeks) o en and how often ass ler observance of Sec	with less than 4 ECTS credits ap r d) presentation/seminar prese	prox. 20 minute entation (appro ls on the metho	d of assessment and will be an-			
	other p	orerequi	sites	tive de on to a the lee sessm	etails at the beginn assessment. If stud cturer will put their	ing of the course. Reg lents have obtained t registration for asses or in the subsequent	gistration for the course will be he qualification for admission t ssment into effect. Students wh	considered a de to assessment c o meet all prere	form students about the respec- eclaration of will to seek admissi- over the course of the semester, quisites will be admitted to as- ents will have to obtain the quali-			

11-HNS-092-m01	Semico	nductor	Nanostruc	tures								
	ECTS	6	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5	F	2 + V (n	no information or	SWS (weekly contact l	hours) and course language	available)				
	Method	l of asse	p t A 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 pi	rerequis	t c t 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-LHQ-092-m01	Lithography in Semiconductor Technology and Theory of Quantum Transport											
	ECTS	6	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	S	F	2 + V (n	no information or	SWS (weekly contact	hours) and course language	available)				
	Method	l of asse	p t A r 2	orox. 30 0 10 pa Assess Iounce 2009.	o minutes per ca ages, time to con ment offered: Wł ed in due form un	ndidate, for modules w pplete: 1 to 4 weeks) or nen and how often asse	vith less than 4 ECTS credits a r d) presentation/seminar pre essment will be offered depe	approx. 20 minute esentation (appro nds on the metho	oral examination in groups (ap- es) or c) project report (approx. 8 x. 30 minutes) d of assessment and will be an- and examination regulations)			
	other pi	rerequis	t c t s	ive det on to a he lect essme	tails at the begin ssessment. If stu turer will put thei ent in the current	ning of the course. Reg dents have obtained th r registration for asses	istration for the course will b ne qualification for admission sment into effect. Students w	e considered a de n to assessment c vho meet all prere	nform students about the respec- eclaration of will to seek admissi- over the course of the semester, equisites will be admitted to as- ents will have to obtain the quali-			

11-NEL-092-m01	Nanoe	lectroni	cs									
	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)								
	Metho	d of ass	pr to As no 20	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	tiv or th se	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-SPD-102-m01	Semiconductor Physics and Devices											
	ECTS	6	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S	V	+ R (no information o	n SWS (weekly contact	hours) and course language av	vailable)					
	Metho	d of ass	30 ge As no 20	o minutes per candida es, time to complete: ssessment offered: W	ite, for modules with le to 4 weeks) or presen hen and how often ass ider observance of Sec	ess than 4 ECTS credits approx. Itation/seminar presentation (a	20 minutes) or pprox. 30 minu ds on the metho	d of assessment and will be an-				
	other p	orerequi	tiv or th se	ve details at the begin n to assessment. If stu e lecturer will put the	ning of the course. Reg idents have obtained t ir registration for asses or in the subsequent	gistration for the course will be the qualification for admission to ssment into effect. Students wh	considered a de to assessment d o meet all prere	nform students about the respec- eclaration of will to seek admissi- over the course of the semester, equisites will be admitted to as- ents will have to obtain the quali-				

11-QTH-102-m01	Quantu	im Trans	sport in Se	emicor	nductor Nanostru	tures						
	ECTS	6	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V + R ((no information or	n SWS (weekly contact	hours) and course language av	ailable)				
	Methoc	l of asso		a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English								
	other p	rerequi		Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.								
11-SPI-102-m01	Spintronics											
	ECTS 6 Duratio			1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V + R ((no information or	SWS (weekly contact	hours) and course language av	ailable)				
	Methoo	d of ass		prox. 3 to 10 p Assess nounc 2009.	30 minutes per ca bages, time to cor sment offered: Wi red in due form ur	ndidate, for modules v nplete: 1 to 4 weeks) o nen and how often ass	with less than 4 ECTS credits ap r d) presentation/seminar prese	prox. 20 minute entation (appro: Is on the metho	d of assessment and will be an-			
	other p	rerequi		tive de on to a the lea sessm	etails at the begin assessment. If stu cturer will put the nent in the current	ning of the course. Reg idents have obtained t r registration for asses	gistration for the course will be o he qualification for admission t ssment into effect. Students who	considered a de o assessment c o meet all prere	form students about the respec- cclaration of will to seek admissi- over the course of the semester, quisites will be admitted to as- ents will have to obtain the quali-			

11-N2-092-m01	Princip	les of E	lectronics	(with	Practical Course)							
	ECTS	6	Duratior	า	1 semester	Metho	od of grading	g numerical gr	rade	Modul level	undergraduate	
	Course	S		V + P	no information o	n SWS (we	eekly contac	t hours) and co	ourse language av	ailable)		
	Method	d of ass	essment	Asses	written examination (approx. 90 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be an- nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009.							
	other prerequisites			tive de on to the le sessm	etails at the begir assessment. If st cturer will put the	nning of th udents ha ir registra t or in the	le course. Re ve obtained tion for asse subsequent	egistration for t the qualifications the qualifications the structure of t	he course will be on for admission t fect. Students wh	considered a de to assessment o o meet all prere	form students about the respec- eclaration of will to seek admissi- over the course of the semester, equisites will be admitted to as- ents will have to obtain the quali-	
	Particip cation	oants ar of place		Only a	Only as part of pool of general key skills (ASQ): 15 places. Places will be allocated by lot.							
Life Science												
08-BC-092-m01	Biochemistry											
	ECTS 6 Duration			า	2 semester	Metho	od of grading	g numerical gr	rade	Modul level	undergraduate	
	Course	S		V + Ü	/ + Ü + V + Ü (no information on SWS (weekly contact hours) and course language available)							
	Methoo	d of ass	essment	each;	a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes)							
	other prerequisites			ning c	Admission prerequisite to assessment: successful completion of exercises in the respective classes as specified at the beginning of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually a maximum of 2 incidents of unexcused absence).							
11-BXN5-112-m01		t Topics	in Nanos	tructu	re Technology							
	ECTS	5	Duration	า	1 semester	Metho	od of grading	g numerical gr	rade	Modul level	undergraduate	
	Course	S		V + R	(no information o	n SWS (we	eekly contac	t hours) and co	ourse language av	ailable)		
	Method of assessment			a) written examination (approx. 120 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Language of assessment: German, English								
	other prerequisites			Appro	val by examination	on commit	tee required	ł.				

11-BXN6-112-m01	Current	t Topics	in Nanos	tructur	e Technology						
	ECTS	6	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V + R	V + R (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment			a) written examination (approx. 120 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Language of assessment: German, English							
	other prerequisites			Approval by examination committee required.							
11-BXN8-112-m01	Current	t Topics	in Nanos	tructur	e Technology						
	ECTS	8	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V + R (no information on SWS (weekly contact hours) and course language available)							
	Method of assessment			a) written examination (approx. 120 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Language of assessment: German, English							
	other prerequisites			Approval by examination committee required.							

07-4S1M-	Basics in Light- and Electron-Microscopy												
Z1-102-m01	ECTS	5	Duration	า	1 semester	Method of grading num	erical grade	Modul level	undergraduate				
	Course	S		V + Ü	(no information on	SWS (weekly contact hours	s) and course language av	ailable)					
	Method	d of ass	essment	writte	written examination (approx. 30 to 60 minutes)								
	other p	other prerequisites			ssion prerequisite f ecified at the begir	to assessment: regular atten nning of the course.	ndance of exercises and s	uccessful comp	letion of the respective exercises				
		oants ar	S	follow dits. S Bache will be Bache of the ber of from t re will poner cessfu waitir prima ked a studie thema ding t to the lated the sa (5%): achie sache	vs: Places will prim Should the module elor's degree subje e allocated to stud- elor's degree subje e application-orient f places available in the other quota. Sh l be a uniform regu nt that are concern- ully completed at le ng list will be maint arily be allocated ac coording to the nur es or of all module atik (Mathematics)) to their average gra eir total number of f as the sum of thes ame ranking, place Places will be alloc ved in modules/mo ved, places will be ng applicants with t n by lot. Should the	arily be allocated to studen be used in other subjects, at Biologie (Biology) with 18 ents of the Bachelor's degre tes Computational Mathem red subject Biology (as well n one quota exceed the nun ould there be, within one m lation for the courses of one ed will be allocated in a sta east one other module comp tained and places re-allocat coording to the applicants' p mber of ECTS credits they ha components in the subject) at the time of application. Ide weighted according to the ECTS credits achieved (quar e two rankings, and places s will be allocated according cated according to the follow odule components of the Fa allocated by lot. Quota 2 (2 he same number of subject	ts of the Bachelor's degre there will be two quotas: 9 30 ECTS credits and 5% of ee subject Biologie (Biolog atics and Mathematik (Ma as potentially to students nber of applications, the r nodule component, severa e module component. In t ndardised procedure. In th ponent of the respective n ted as they become availa previous academic achiev ave achieved and their ave of Biologie (Biology) (excl This will be done as follow he number of ECTS credits ntitative ranking). The app will be allocated accordin g to the qualitative rankin wing quotas: Quota 1 (50% aculty of Biology; among a 25% of places): number of semesters, places will be e Bachelor's degree subje	es subject Biolog 95% of places w places (a minim gy) with 60 ECTS athematics), eac of other 'import remaining places al courses with a his case, places his procedure, a nodule will be gi ble. Selection p rements. For this erage grade of a luding Chemie ((ws: First, applica s (qualitative ran olicants' position ag to this third ran g or otherwise b % of places): tota subject semest e allocated by log	aces, places will be allocated as gie (Biology) with 180 ECTS cre- vill be allocated to students of the num of one participant in total) 5 credits and to students of the ch with 180 ECTS credits, as part ting' subjects). Should the num- s will be allocated to applicants a restricted number of places, the- s on all courses of a module com- applicants who already have suc- iven preferential consideration. A rocess group 1 (95%): Places will s purpose, applicants will be ran- tll assessments taken during their Chemistry), Physik (Physics), Ma- ants will be ranked, firstly, accor- nking) and, secondly, according n in a third ranking will be calcu- anking. Among applicants with by lot. Selection process group 2 cal number of ECTS credits already he same number of ECTS credits, pla-				

07-4S1M-	Special Bioinformatics 1												
Z6-102-m01	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul leve	l undergraduate						
	Courses		V + Ü	V + Ü (no information on SWS (weekly contact hours) and course language available)									
	Method of	assessment	Lang	log (approx. 10 to 20 pages) Language of assessment: German or English									
	other prere	equisites		Admission prerequisite to assessment: regular attendance of exercises and successful completion of the respective exercises as specified at the beginning of the course.									
	Participant cation of p	ts and allo- olaces	follow dits. Bach will b Bach of the ber o from re wil pone cessf waitin prima ked a studi them ding to to the lated the ss (5%): achie amor catio	ws: Places will prim Should the module people allocated to stud- people allocated to stud- people allocated to stud- people allocated to stud- e application-orien of places available the other quota. Si ll be a uniform regu- ent that are concerr fully completed at a ng list will be main arily be allocated a according to the nu- people allocated a ame ranking, places ame ranking, places will be allocated and the sum of these ame ranking, places and the sum of the seved in modules/m eved, places will be ng applicants with on by lot. Should th	Should the number of applications exceed the narily be allocated to students of the Bachelo e be used in other subjects, there will be two ect Biologie (Biology) with 180 ECTS credits a dents of the Bachelor's degree subject Biolog ects Computational Mathematics and Mathe need subject Biology (as well as potentially to in one quota exceed the number of applicati should there be, within one module compone ulation for the courses of one module compone ulation for the courses of one module compone to according to the applicants' previous academ umber of ECTS credits they have achieved and e components in the subject of Biologie (Biol 5)) at the time of application. This will be don rade weighted according to the number of ECT ECTS credits achieved (quantitative ranking) se two rankings, and places will be allocated es will be allocated according to the qualitation podule components of the Faculty of Biology; e allocated by lot. Quota 2 (25% of places): in the same number of subject semesters, place the module be used only in the Bachelor's deg coording to the selection process of group 1.	or's degree subject Bio o quotas: 95% of place and 5% of places (a mi gie (Biology) with 60 Ed matik (Mathematics), o students of other 'imp ions, the remaining pla ent, several courses with onent. In this case, place dure. In this procedure spective module will b me available. Selection nic achievements. For t d their average grade of logy) (excluding Chemi e as follows: First, app TS credits (qualitative). The applicants' positi d according to this third ive ranking or otherwis tota 1 (50% of places): ; among applicants with number of subject semi-	blogie (Biology) with 180 ECTS cre- s will be allocated to students of the nimum of one participant in total) CTS credits and to students of the each with 180 ECTS credits, as part porting' subjects). Should the num- aces will be allocated to applicants th a restricted number of places, the- ces on all courses of a module com- e, applicants who already have suc- e given preferential consideration. A n process group 1 (95%): Places will this purpose, applicants will be ran- of all assessments taken during their e (Chemistry), Physik (Physics), Ma- licants will be ranked, firstly, accor- ranking) and, secondly, according tion in a third ranking will be calcu- d ranking. Among applicants with se by lot. Selection process group 2 total number of ECTS credits already th the same number of ECTS credits esters of the respective applicant; <i>r</i> lot. Quota 3 (25% of places): allo-						

07-5S2M-	Specifi	Specific Biotechnology 2												
Z4-102-m01	ECTS	10	Duratior	า	1 semester	Method of grading numerical grade	Modul level	undergraduate						
	Course	S		Ü + S	Ü + S (no information on SWS (weekly contact hours) and course language available)									
		Method of assessment			methods of assessment: a) written examination (approx. 45 to 60 minutes) or b) log (approx. 10 to 20 pages) or c) oral exami- nation of one candidate each (approx. 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) or e) presentation (approx. 20 to 30 minutes); students will be informed about the method and length of the assessment prior to the course									
	other p	orerequis				o assessment: regular attendance of exercises and s pecified at the beginning of the course.	eminar as well a	as successful completion of the						
		oants an of place	'S	follow dits. S Bache will b Bache of the ber of from t re wil ponen cessfi waitir prima ked a studie the sa (5%): achie achie amon catior	vs: Places will prima Should the module h elor's degree subject e allocated to stude elor's degree subject e application-oriente f places available in the other quota. Sho l be a uniform regula nt that are concerne ully completed at lea and list will be mainta arily be allocated according to the num es or of all module c atik (Mathematics)) to their average grace are ranking, places Places will be allocated wed in modules/mo ved, places will be allocated and paplicants with the n by lot. Should the	nould the number of applications exceed the number arily be allocated to students of the Bachelor's degree be used in other subjects, there will be two quotas: ct Biologie (Biology) with 180 ECTS credits and 5% of ents of the Bachelor's degree subject Biologie (Biologicts Computational Mathematics and Mathematik (Mated subject Biology (as well as potentially to students on one quota exceed the number of applications, the rould there be, within one module component, severa ation for the courses of one module component. In the east one other module component of the respective rould be allocated in a standardised procedure. In the action of the applications' previous academic achieved be of ECTS credits they have achieved and their avec components in the subject of Biologie (Biology) (exclu- at the time of application. This will be done as follow de weighted according to the number of ECTS credits actording to the application. This will be done as follow de weighted according to the number of ECTS credits act the time of application. This will be allocated according to the following quotas: Quota 1 (50% of the according to the following quotas: Quota 1 (50% of the selection process of group 1.	ee subject Biolog 95% of places w f places (a minin gy) with 60 ECTS athematics), eac s of other 'impor remaining places al courses with a this case, places this procedure, a module will be g able. Selection p vements. For this rerage grade of a luding Chemie ((ws: First, applica s (qualitative rar plicants' position g to this third ran g or otherwise b % of places): tot applicants with t f subject semest e allocated by lo	gie (Biology) with 180 ECTS cre- vill be allocated to students of the num of one participant in total) S credits and to students of the ch with 180 ECTS credits, as part ting' subjects). Should the num- s will be allocated to applicants a restricted number of places, the- s on all courses of a module com- applicants who already have suc- given preferential consideration. A process group 1 (95%): Places will s purpose, applicants will be ran- all assessments taken during their Chemistry), Physik (Physics), Ma- ants will be ranked, firstly, accor- nking) and, secondly, according n in a third ranking will be calcu- anking. Among applicants with by lot. Selection process group 2 tal number of ECTS credits already the same number of ECTS credits ters of the respective applicant; ot. Quota 3 (25% of places): allo-						

03-NS-FBM-102-	Functiona	Functional Biomaterials for Students of Nanostructure Technology and Science ECTS 5 Duration 1 semester Method of grading numerical grade Modul level undergraduate													
m01	ECTS 5	Duratio	n 1 semester	Method of grading	numerical grade	Modul level	undergraduate								
	Courses		 This module comprises 2 module components. Information on courses will be listed separately for each module component. o3-NS-FBM-1-102: V (no information on SWS (weekly contact hours) and course language available) o3-NS-FBM-2-102: V + P (no information on SWS (weekly contact hours) and course language available) 												
	Method o	of assessment		Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.											
			Science												
			 3 ECTS, Method of grading: numerical grade written examination (approx. 90 to 120 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) Assessment in module component 03-NS-FBM-2-102: Special Topics in Functional Biomaterials Special Topics in Functional 												
			placement repo	of grading: (not) succe t / fieldwork report / re rse (approx. 10 to 20 p	eport on practical training / rep	ort on practical o	course / project report / report								
07-4BFM-	Biotechn	ology 1 for Nai	ostructure Technology												
Z5N-102-m01	ECTS 5	Duratio	n 1 semester	Method of grading	numerical grade	Modul level	undergraduate								
	Courses		 This module comprises 2 module components. Information on courses will be listed separately for each module component. 07-4BFMZ5N-1-102: P (no information on SWS (weekly contact hours) and course language available) 07-4BFMZ5N-2-102: S (no information on SWS (weekly contact hours) and course language available) 												
	Method o	of assessment	Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.												
			 Assessment in module component o7-4BFMZ5N-1-102: Biotechnology 1 Laboratory Practice for Nanostructure Technology 4 ECTS, Method of grading: numerical grade placement report / fieldwork report / report on practical training / report on practical course / project report / report on technical course (approx. 10 to 20 pages) Assessment offered: once a year, summer semester Other prerequisites: Admission prerequisite to assessment: regular attendance of placement. Assessment in module component o7-4BFMZ5N-2-102: Biotechnology 1 Seminar für Nanostructure Technology 1 ECTS, Method of grading: (not) successfully completed presentation/seminar presentation (approx. 20 to 30 minutes) Assessment offered: once a year, summer semester 												
	other pre	requisites	By way of exception, a	ditional prerequisites	are listed in the section on ass	essments.									
	Participar cation of	nts and allo- places	Number of places: 2. Should the number of applications exceed the number of available places, places will be allocated by lot. Should there be, within one module component, several courses with a restricted number of places, there will be a uniform regulation for the courses of one module component. In this case, places on all courses of a module component that are concerned will be allocated in a standardised procedure. When places are allocated by lot, applicants who already have successfully completed at least one other module component of the respective module will be given preferential consideration. A waiting list will be maintained and places re-allocated as they become available.												

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07-4BF-	Membi	rane Bi	ology for a	dvance	ed students for Nar	nostructure Technolog	<u>gy</u>					
PS2N-102-m01	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		V + Ü	(no information on	SWS (weekly contact	hours) and course language	available)				
	Methoo	d of ass	sessment	a) written examination (approx. 60 minutes) or b) log (approx. 10 to 20 pages) or c) oral examination of one candidate each (approx. 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 60 minutes) or e) presentation (approx. 20 to 30 minutes)								
	other p	orerequ	isites	Admission prerequisite to assessment: regular attendance of exercises as well as successful completion of the respective exercises.								
	Partici cation		nd allo- es	lot. Sł form r conce cessfu	Number of places: 2. Should the number of applications exceed the number of available places, places will be allocated by lot. Should there be, within one module component, several courses with a restricted number of places, there will be a uniform regulation for the courses of one module component. In this case, places on all courses of a module component that are concerned will be allocated in a standardised procedure. When places are allocated by lot, applicants who already have successfully completed at least one other module component of the respective module will be given preferential consideration. A waiting list will be maintained and places re-allocated as they become available.							
07-4S1M-	Metho	ds in Bi	iotechnolo	gy for	Nanostructure Tecl	hnology	· · ·					
Z4N-102-m01	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	Courses			 This module comprises 2 module components. Information on courses will be listed separately for each module component. 07-4S1MZ4N-1-102: V (no information on SWS (weekly contact hours) and course language available) 07-4S1MZ4N-2-102: S (no information on SWS (weekly contact hours) and course language available) 							
	Methoo	Method of assessment			Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.							
					 Assessment in module component o7-4S1MZ4N-1-102: Methods in Biotechnology for Nanostructure Technology 3 ECTS, Method of grading: numerical grade written examination (approx. 20 minutes) 							
				Asses •	sment in module c 2 ECTS, Method of presentation/sem	omponent o7-4S1MZ f grading: (not) succes	4 N-2-102: Seminar Methods i ssfully completed prox. 15 to 20 minutes)	n Biotechnology f	or Nanostructure Technology			
	Particiț cation		nd allo- es	lot. Sł form r conce cessfu	nould there be, with egulation for the co rned will be allocat ully completed at le	nin one module comp ourses of one module ted in a standardised east one other module	onent, several courses with a component. In this case, pla procedure. When places are	restricted number ces on all courses allocated by lot, a e module will be g	ces, places will be allocated by er of places, there will be a uni- s of a module component that are applicants who already have suc- given preferential consideration. A			

07-4S1M-	Molecu	ular Bio	technolog	y for N	r for Nanostructure Technology								
Z5N-102-m01	ECTS	5	Duratio	1	1 semester	Method of gradin	g numerical grade	Modul l	evel	undergraduate			
	Course	'S	_	•	 This module comprises 2 module components. Information on courses will be listed separately for each module component. 07-4S1MZ5N-1-102: V (no information on SWS (weekly contact hours) and course language available) 07-4S1MZ5N-2-102: S (no information on SWS (weekly contact hours) and course language available) 								
	Methoo	d of ass	essment							s as specified below. Unless all individual assessments.			
				 Assessment in module component 07-4S1MZ5N-1-102: Aspects of Modern Biotechnology for Nanostructure Technology 3 ECTS, Method of grading: numerical grade written examination (approx. 30 minutes) Assessment in module component 07-4S1MZ5N-2-102: Seminar Modern Biotechnology for Nanostructure Technology 2 ECTS, Method of grading: (not) successfully completed presentation/seminar presentation (approx. 15 to 20 minutes) Assessment offered: once a year, summer semester 									
		pants ar of place		lot. Sł form r conce cessfu	nould there be, wit regulation for the c rrned will be alloca ully completed at lo	hin one module com ourses of one modu ated in a standardise east one other modu	ponent, several courses wi le component. In this case, d procedure. When places	ith a restricted r , places on all co are allocated by ctive module wi	numbe ourses / lot, a	ces, places will be allocated by er of places, there will be a uni- s of a module component that are applicants who already have suc- given preferential consideration. A			
07-BTNST-102-m01	Basics in Biotechnology												
	ECTS	2	Duration		1 semester	-	g numerical grade	Modul l	evel	undergraduate			
	Course	S		V + S	(no information on	SWS (weekly conta	ct hours) and course langua	age available)					
	Method	d of ass	essment		n examination (ap								
	other p	prerequi	sites	sist er stude answe termin be con b) a m on car respe stions amina of 75% tisfact ve con exami numb	ntirely or partly of r nts will have to be ers in accordance w ne which answers a nsidered successfun inimum of 50% of ndidate is no more ctive examination s required for succe ation consisting of %, the grade gut (go tory) if they have cor rectly answered le ination, the number or of questions as	multiple choice ques informed about this with Section 16 Subs are to be considered ully completed if a) a questions was answe than 15% lower tha for the first time. Exa essful completion of multiple choice que ood) if they have con orrectly answered a ess than 25% of the r er of correctly answe ked and the average	stions. If the selected metho in due time. A minimum of section 1 ASPO (general aca correct. The part of the exa a total of a minimum of 60% wered correctly and the num n the average number of qua mination candidates that h the examination as specifi stions, the grade sehr gut (crectly answered a minimum minimum of 25% but less t rest of the questions that was requ	od of assessme f two examiners ademic and exar amination consi % of the question nber of question uestions answer have correctly a ied in sentence (excellent) if the n of 50% but les han 50%, the gr . When students uired for succes wered correctly b	nt incl will co ninati sting co ns ask is ans red co nswer 5 will l y have s that rade a s are in sful co y the), written examinations can con- ludes multiple choice questions, ompile the set of questions and on regulations). They will also de- of multiple choice questions will ked was answered correctly or if wered correctly by the examinati- rrectly by students that took the ed the minimum number of que- be awarded, in the part of the ex- e correctly answered a minimum n 75%, the grade befriedigend (sa- usreichend (sufficient) if they ha- nformed about the results of the ompletion of the examination, the reference group mentioned under te manner.			

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08-BC-LAGY-092-	92- Biochemistry (teaching degree for secondary schools)										
m01	ECTS 3	3	Duration	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			V + Ü	(no information on S	SWS (weekly contact	hours) and course language av	ailable)			
	Method o	of asse	ssment	a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German or English							
	other pre	requis	ites	ning c a max	of the course (usuall imum of 2 incidents	y 70% of exercises to of unexcused abser	be successfully completed) as nee).		classes as specified at the begin- attendance of exercises (usually		
	Referred	to in Ll	PO I	§62 (1) 2. Chemie "Organ	ische und Bioorgani	sche Chemie"				
Energy and Materia	l Science	Resea	rch								
08-NT-101-m01	Chemical	lly and	biologic	ally in:	spired Nanotechnol	ogy for Materials Sy	nthesis				
	ECTS 5	5	Duration		1 semester	Method of grading		Modul level	undergraduate		
	Courses	 This module comprises 2 module components. Information on courses will be listed separately for each module component. o8-NT-1-101: V (no information on SWS (weekly contact hours) and course language available) o8-NT-2-101: V (no information on SWS (weekly contact hours) and course language available) 									
	Method o			stated Asses Asses	l otherwise, success sment in module co 2 ECTS, Method of oral examination (a sment in module co 3 ECTS, Method of oral examination (a	ful completion of the mponent o8-NT-1-10 grading: numerical g approx. 15 minutes) mponent o8-NT-2-10 grading: numerical g	rade 1: From Biomineralisation to bio	l completion of nspired Nanote	all individual assessments. chnology for Materials Synthesis		
08-FS1-101-m01	Materials		· · · ·		oduction)	-					
	ECTS 5	;	Duration		1 semester	Method of grading		Modul level	undergraduate		
	Courses					. ,	hours) and course language ava	ailable)			
					n examination (90 n	ninutes)					
08-FS2-101-m01		r			r Material Groups)						
	ECTS 5	, <u> </u>	Duratior		1 semester	Method of grading)))	Modul level	undergraduate		
	Courses						hours) and course language ava	ailable)			
08-EEW-101-m01					n examination (appi e and Conversion	rox. 90 minutes)					
08-EEW-101-1101		- i	Duratior	-		Mathad of grading	numerical grade	Modulloval	graduata		
	ECTS 5 Courses		Duration		1 semester	Method of grading	-	Modul level	graduate		
		ourses V + P + E (no information on SWS (weekly contact hours) and course language available) ethod of assessment written examination (90 minutes) and lab report (approx. 5 pages)									
	method 0	JI asse	ssment	white	ii examination (90 fi	innutes) and tab lept	ni (appiux. 5 pages)				

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11-BXN5-112-m01	Curren	t Topics	s in Nanos	tructu	re Technology							
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S	•	V + R	(no information on	SWS (weekly contact	hours) and course lang	guage available)	-			
	Metho	d of ass	essment						r oral examination in groups (ap-			
								pages, time to complete	: 1 to 4 weeks) or d) presentati-			
					eminar presentation uage of assessment	n (approx. 30 minutes) :- German English						
	other p	reregui	icitoc	Approval by examination committee required.								
11-BXN6-112-m01				structure Technology								
		6	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course						hours) and course lang					
		-	essment						r oral examination in groups (ap-			
				prox.	30 minutes per can	ididate) or c) project re	eport (approx. 8 to 10 j		: 1 to 4 weeks) or d) presentati-			
						n (approx. 30 minutes)	1					
	a tha e e			-	uage of assessment	_						
AL DVNO 440 mod		r prerequisites Approval by examination committee required.										
11-BXN8-112-m01			Duratio			Mothod of grading	numerical grade	Madullaval	undorgraduato			
		ourses			1 semesterMethod of gradingnumerical gradeModul levelundergraduate/ + R (no information on SWS (weekly contact hours) and course language available)							
			essment									
				prox. on/se	30 minutes per can	ididate) or c) project re n (approx. 30 minutes)	eport (approx. 8 to 10		: 1 to 4 weeks) or d) presentati-			
	other p			Approval by examination committee required.								
11-FM-TI-131-m01	FOKUS	Resear	rch Modul	Ile Topological Insulators								
	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S							structures): V (3 weekly contact			
							or English, once a year		a weakly centert hours). Cormon			
									2 weekly contact hours), German owards the end of semester break			
						e subsequent semeste						
	Method	d of ass	essment			owing assessment cor						
									(approx. 30 minutes) or oral ex-			
					mination of one cand minar: talk (approx.		mination in groups (aj	oprox. 30 minutes) or pr	oject report (approx. 8 pages)			
				Asses	ssment components	and 2 will be offere	d in German or Englisl	۱.				
				Students must register for assessment components 1 and 2 online (details to be announced).								
				Assessment component 1 will be offered once a year in the summer semester; details on when assessment component 2 will be offered to be announced.								
							assessment compone	ent 1 and assessment co	mponent 2			
Bachelor's with 1 major	Napostrustu	ro Tochnol	000 (2010)				•	ed 26-Aug-2024 • exam. reg. data r	· · · · · · · · · · · · · · · · · · ·			
Dachelor S with 1 Major	ivanostructu	re recrinol	ugy (2010)				Jivio wurzburg • generate	eu 20-Aug-2024 • exam. reg. data r	record 82 224 - - H 2010 page 27 / 46			

08-PCM3-102-m01	Nanoscale Materials												
	ECTS	5	Duratio	n	1 semester	Method of grading	g numerical grade	Modul level	graduate				
	Course	S		S + Ü	(no information o	n SWS (weekly contac	t hours) and course langu	age available)	•				
	Methoo	d of ass	essment		written examination (90 minutes) or oral examination of one candidate each (20 minutes) or talk (30 minutes) Language of assessment: German or English								
11-ASL-092-m01	Applied	d Super	conductio	n	n								
	ECTS	6	Duratio	n	1 semester	Method of grading	g numerical grade	Modul level	graduate				
	Course	S		R + V	(no information o	n SWS (weekly contac	t hours) and course langua	age available)	•				
			cosment	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 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-ENT-092-m01	Principles of Energy Technologies												
	ECTS	6	Duratio	n	1 semester	Method of grading	g numerical grade	Modul level	graduate				
	Course	:S		R + V (no information on SWS (weekly contact hours) and course language available)									
	Methoo	d of ass	essment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English									
	other p	orerequi	sites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.									

11-TDO-092-m01	Thermodynamics and Economics											
	ECTS	6	Duratior	۱	1 semester	Method of grading r	numerical grade	Modul level	graduate			
	Course	s		R + V	(no information o	n SWS (weekly contact h	ours) and course language a	available)				
	Methoo	d of ass	essment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English								
	other p	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-NTE-092-m01	Nanotechnology in Energy Research											
	ECTS	4	Duratior	۱	1 semester	Method of grading r	numerical grade	Modul level	graduate			
	Course	S		V + R (no information on SWS (weekly contact hours) and course language available)								
	Methoo	d of ass		a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009.								
	other p	rerequi	sites	tive d on to the le sessn	etails at the begin assessment. If stu cturer will put the nent in the current	ning of the course. Regis idents have obtained the r registration for assess	stration for the course will be e qualification for admissior ment into effect. Students w	e considered a de n to assessment o rho meet all prere	form students about the respec- claration of will to seek admissi- ver the course of the semester, quisites will be admitted to as- nts will have to obtain the quali-			

08-CT-102-m01	Molecu	lar Mat	erials (Le	cture a	nd practical course)						
	ECTS	10	Duratior	ı 🦷	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	25		 This module comprises 2 module components. Information on courses will be listed separately for each module component. 08-CT-1-101: V + Ü (no information on SWS (weekly contact hours) and course language available) 08-CT-2-102: P (no information on SWS (weekly contact hours) and course language available) 							
	Method	d of asso	essment	Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.							
	 Assessment in module component o8-CT-1-101: Molecular Materials (Lecture) Molecular Materials (Lecture) 5 ECTS, Method of grading: numerical grade 5 ECTS, Method of grading: numerical grade presentation (approx. 30 minutes) and a) 1 to 3 written examinations (1 written examination: examinations: 60 or 90 minutes each; 3 written examinations: 60 minutes each) or b) oral examination in groups (groups of 2, approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) 5 ECTS, Method of grading: (not) successfully completed Vortestate (pre-experiment exams, approx. 15 minutes each) and logs (approx. 5 pages each) 										
	Module comple	es succe eted	essfully	08-FS2							
		pants ar of place		•	o8-CT-2-102: Stude gy): 4. Should ther places will be alloc thin one module co the courses of one will be allocated in at least one other r	ents from the Faculty e be more than 4 app ated among these ap imponent, several co module component. a standardised proce nodule component o	olications from students of Nar oplicants as follows: (1) Places v urses with a restricted number In this case, places on all cours edure. In this procedure, applic	Vanostrukturtec ostrukturtechn vill be allocated of places, there es of a module ants who alread given preferent	hnik (Nanostructure Technolo- ik (Nanostructure Technology), by lot. (2) Should there be, wi- will be a uniform regulation for component that are concerned		
08-CTO-101-m01	Molecu	ular Mat	erials for	Studer	nts of Nanostructure	Technology					
	ECTS 5 Duration		n l	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			V + Ü	(no information on S	SWS (weekly contact	hours) and course language av	ailable)			
	Method of assessment			presentation (approx. 30 minutes) and a) 1 to 3 written examinations (1 written examination: 90 minutes; 2 written examinations: 60 or 90 minutes each; 3 written examinations: 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes)							

11-TMS-102-m01	Introdu	ction to	Function	al Mat	erials	_					
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses	s		V + Ü	(no information on S	SWS (weekly contact	hours) and course language a	vailable)			
	Method	l of asse		written examination (approx. 120 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be an- nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009.							
	other pi	rerequis		tive de on to the le sessm	etails at the beginni assessment. If stud cturer will put their i	ing of the course. Reg ents have obtained t registration for asses or in the subsequent s	gistration for the course will be he qualification for admission sment into effect. Students wh	considered a de to assessment c no meet all prere	nform students about the respec- eclaration of will to seek admissi- over the course of the semester, equisites will be admitted to as- ents will have to obtain the quali-		
11-BVG-092-m01	Coating	g Techn	ologies ba	ised o	n Vapour Deposition	n					
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	s		V + R	(no information on S	SWS (weekly contact	hours) and course language av	vailable)			
	Method	l of asse		a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009.							
	other pi	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-TDOE-141-m01	Thermo	odynami	ics and Ec	onomi	ics						
	ECTS	3	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses			V (no	information on SWS	(weekly contact hou	irs) and course language availa	able)			
				a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes)							

11-BSV-131-m01	Image	and Sig	gnal Proce	ssing	in Physics							
	ECTS	6	Duration	n	1 semester	Meth	od of grading	numerical §	grade	Modul level	graduate	
	Course	s		V + R	(no information of	on SWS (w	veekly contact	hours) and o	course language av	ailable)		
	Methoc	d of ass	sessment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentati- on/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be an- nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English								
	other p	rerequi	isites	tive d on to the le	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- ive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, he lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- essment in the current or in the subsequent semesters.							
11-PMM-132-m01	Physics	s of Adv	vanced Ma	terial	5							
	ECTS	6	Duration	n	1 semester	Meth	od of grading	numerical §	grade	Modul level	graduate	
	Course	S		V + R	(no information of	on SWS (w	veekly contact	hours) and o	course language av	ailable)	-	
			sessment	prox. on/se Asses noun 2009	prox. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) prese on/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulati 2009. Language of assessment: German, English						od of assessment and will be an-	
Analytics and Met												
11-A3-072-m01		<u> </u>	1		Technology			-				
	ECTS	6	Duration		1 semester		od of grading		-	Modul level	undergraduate	
	Course	-					,	t hours) and	course language av	vailable)		
			sessment		en examination (a							
	other p	rerequi	isites	to qu cours obtai for as	Admission prerequisite to assessment: successful completion of approx. 50% of exercises. Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.							
	Particip cation of		nd allo- es	Only	as part of pool of	general k	ey skills (ASQ): 15 places.	Places will be alloc	ated by lot.		

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08-FS5-101-m01	Chemi	al Nan	otechnolo	gy: An	alytics and Applic	ations						
	ECTS	5	Duratio	1	1 semester	Method of gr	ading	numerical grade		Modul level	graduate	
	Course	S			 This module comprises 2 module components. Information on courses will be listed separately for each module component. o8-FS5-1-101: V (no information on SWS (weekly contact hours) and course language available) o8-FS5-2-101: V (no information on SWS (weekly contact hours) and course language available) 							
	Methoo	d of ass	sessment	Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.								
				 Assessment in module component o8-FS5-1-101: Sol-Gel Chemistry 2 2 ECTS, Method of grading: numerical grade a) oral examination (approx. 15 minutes) or b) written examination (approx. 45 minutes) Assessment in module component o8-FS5-2-101: Application oriented Characterization of colloidal and polymeric systems 3 ECTS, Method of grading: numerical grade a) oral examination (approx. 20 minutes) or b) written examination (approx. 45 minutes) 								
	Participants and allo- cation of places			Number of places: 20. Should the number of applications exceed the number of available places, places will be allocated in a standardised procedure among all applicants irrespective of their subjects according to the following quotas: Quota 1 (50% of places): total number of ECTS credits already achieved in the respective degree subject; among applicants with the same number of ECTS credits achieved, places will be allocated by lot. Quota 2 (25% of places): number of subject semesters of the respective applicant; among applicants with the same number of subject semesters, places will be allocated by lot. Quota 3 (25% of places): allocation by lot. In this procedure, applicants who already have successfully completed at least one module component of the respective module will be given preferential consideration. A waiting list will be maintained and places reallocated as they become available.								
	Additional Information			The course is offered as a block course at the end of the semester.								
11-BXN5-112-m01	Curren	Current Topics in Nanostructure Technology										
	ECTS	5	Duratio	า	1 semester	Method of gr	ading	numerical grade		Modul level	undergraduate	
	Course	S		V + R	V + R (no information on SWS (weekly contact hours) and course language available)							
	Method of assessment		sessment	prox. on/se	a) written examination (approx. 120 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Language of assessment: German, English							
	other p	•			oval by examination	on committee req	uired.					
11-BXN6-112-m01		-	1		re Technology							
	ECTS	6	Duratio	1	1 semester	Method of gr	ading	numerical grade		Modul level	undergraduate	
	Courses			V + R (no information on SWS (weekly contact hours) and course language available)								
	Methoo	d of ass	sessment	prox. on/se		andidate) or c) pr on (approx. 30 m	oject re inutes)	eport (approx. 8 to 10			r oral examination in groups (ap- : 1 to 4 weeks) or d) presentati-	
	other prerequisites			Appro	oval by examination	on committee req	uired.					

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11-BXN8-112-m01	Curren	t Topics	in Nanos	tructu	re Technology							
	ECTS	8	Duratio	n	1 semester	Method of grading numerical g	grade	Modul level	undergraduate			
	Course	S		V + R	(no information o	n SWS (weekly contact hours) and o	course language av	vailable)	•			
	Methoo	d of ass	essment	prox. on/se	a) written examination (approx. 120 minutes) or b) oral examination of one candidate each or oral examination in groups (ap prox. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentati- on/seminar presentation (approx. 30 minutes) Language of assessment: German, English							
	other p	rerequi	sites	Appro	Approval by examination committee required.							
11-MST-092-m01	Magnetism and Spin Transport											
	ECTS	6	Duratio	n	2 semester	Method of grading numerical g	grade	Modul level	graduate			
	Course	Courses			+ V (no informatio	n on SWS (weekly contact hours) a	nd course languag	e available)				
				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 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-NAN-092-m01	Nanoa	Nanoanalytics										
	ECTS	6	Duratio	n	1 semester	Method of grading numerical g	grade	Modul level	graduate			
	Course	S		R + V	R + V (no information on SWS (weekly contact hours) and course language 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 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English								
	other p	prerequi	sites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.								

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11-BMT-092-m01	Biophy	sical M	easuremen	nt Tech	nnology in Medical	Science						
	ECTS	6	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		R + V (no information on SWS (weekly contact hours) and course language available)								
	Methoo	1 of asse		a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English								
	other p	prerequi	1	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.								
11-LMB-092-m01	Labora	Laboratory and Measurement Technology in Biophysics										
	ECTS	6	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		R + V (no information on S	SWS (weekly contact	hours) and course language av	ailable)				
	Methoo	1 of asse		a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English								
	other p	prerequis	1	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.								

11-ZMB-102-m01	Methods for non-destructive Characterization of Materials and Components											
	ECTS 3	Duratio		1 semester	-	numerical grade	Modul level	undergraduate				
	Courses		V + R	V + R (no information on SWS (weekly contact hours) and course language available)								
	Method of	assessment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009.									
	other prere		tive d on to the le sessn ficatio	etails at the beg assessment. If s cturer will put th nent in the curren on for admission	nning of the course. Re tudents have obtained eir registration for asse nt or in the subsequent to assessment anew.	egistration for the course will be the qualification for admissior essment into effect. Students w	e considered a de n to assessment c vho meet all prere	form students about the respec- eclaration of will to seek admissi- over the course of the semester, quisites will be admitted to as- ents will have to obtain the quali-				
11-ZDR-111-m01	Principles of two- and threedimensional Röntgen imaging											
	ECTS 6	Duratio	n	1 semester	Method of grading	g numerical grade	Modul level	graduate				
	Courses		V + R	(no information	on SWS (weekly contac	t hours) and course language a	available)					
	Method of	assessment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, 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 prere	quisites	tive d on to the le sessn	etails at the beg assessment. If s cturer will put th nent in the currer	nning of the course. Re tudents have obtained eir registration for asse	egistration for the course will be the qualification for admission essment into effect. Students w	e considered a de n to assessment c vho meet all prere	form students about the respec- claration of will to seek admissi- over the course of the semester, quisites will be admitted to as- ents will have to obtain the quali-				

11-IEM-111-m01	Introduction to Electron Microscopy											
	ECTS	4	Duratior	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5		V + R	/ + R (no information on SWS (weekly contact hours) and course language available)							
	Method	of asse		a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English								
	other prerequisites			Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.								
Lab Course Engine	ering											
11-BXN5-112-m01	Current Topics in Nanostructure Technology											
	ECTS	5	Duration	۱	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	5		V + R (no information on SWS (weekly contact hours) and course language available)								
	Method of assessment			a) written examination (approx. 120 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Language of assessment: German, English								
	other pr	rerequis	sites	Approval by examination committee required.								
11-BXN6-112-m01	Current	Topics	in Nanos	tructure Technology								
	ECTS	6	Duratior	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	5	,	V + R	(no information on !	SWS (weekly contact	t hours) and course language a	vailable)				
	Method of assessment			a) written examination (approx. 120 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Language of assessment: German, English								
	other pr	rerequis	sites	Appro	val by examination	committee required	•					

11-BXN8-112-m01	Curren	t Topic:	s in Nanos	tructu	ure Technology							
	ECTS	8	Duration	า	1 semester	Method of gradin	g numerical grade	Modul level	undergraduate			
	Course	S		V + R	/ + R (no information on SWS (weekly contact hours) and course language available)							
	Method of assessment			prox on/s	a) written examination (approx. 120 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Language of assessment: German, English							
	other p	orerequi	isites		pproval by examination committee required.							
11-N2-092-m01				with	n Practical Course)	 J						
		6	Duration	-	1 semester		g numerical grade	Modul level	undergraduate			
	Courses			V + P	' (no information o	n SWS (weekly contac	ct hours) and course la	nguage available)				
	Metho	d of ass	sessment	Asse	written examination (approx. 90 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be an- nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009.							
	other p	orerequi	isites	tive of on to the lo sess	details at the begin assessment. If st ecturer will put the ment in the curren	nning of the course. R udents have obtained eir registration for asso	egistration for the cour I the qualification for a essment into effect. Stu	se will be considered a c dmission to assessment udents who meet all prei	inform students about the respec- declaration of will to seek admissi- over the course of the semester, requisites will be admitted to as- dents will have to obtain the quali-			
	Participants and allo- cation of places			Only as part of pool of general key skills (ASQ): 15 places. Places will be allocated by lot.								
11-PPT-092-m01	Practical Course Physical Technology of Material Synthesis											
	ECTS 5 Duration			ı	1 semester	Method of gradin	g (not) successfully co	ompleted Modul level	undergraduate			
	Course	S		P (no	P (no information on SWS (weekly contact hours) and course language available)							
	Metho	d of ass	sessment	Preparing the experiment will be considered successfully completed if an oral test (duration: approx. 15 minutes) prior to the experiment is passed. Performing and evaluating the experiment will be considered successfully completed if a Testat (exam) is passed. An experiment log (approx. 8 pages) is to be prepared. Each component of the assessment can be repeated once in the respective semester. Only if both components of the assessment have been successfully completed in the same semester will the module component be considered successfully completed. Assessment offered: once a year, winter semester								
	other p	prerequi	isites	tive of on to the lo sess	details at the begin assessment. If st ecturer will put the ment in the curren	prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tails at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- ssessment. If students have obtained the qualification for admission to assessment over the course of the semester, turer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- ent in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- for admission to assessment anew.						

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Computer Aided M	ethods											
11-MPI4-062-m01	Mather	natics 4	for Stud	ents of	Physics and Engi	neering						
	ECTS	8	Duration	ı	1 semester	Method of grad	ing numerical grade		Modul level	undergraduate		
	Course	S		V + Ü	V + Ü (no information on SWS (weekly contact hours) and course language available)							
	Method	d of asse	essment	writte	n examination (ap	prox. 120 minutes)						
11-A3-072-m01	Labora	Laboratory and Measurement Technology										
	ECTS	6	Duration	l	1 semester	Method of grad	ing numerical grade		Modul level	undergraduate		
	Courses			V + Ü	(no information or	n SWS (weekly cont	tact hours) and course lar	nguage av	ailable)			
	Method	d of asse	ssment	writte	n examination (ap	prox. 120 minutes)						
	other prerequisites			to qua cours obtain for as	Admission prerequisite to assessment: successful completion of approx. 50% of exercises. Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment an-							
	cation	oants an of place	5	,		eneral key skills (A	SQ): 15 places. Places wi	ll be alloc	ated by lot.			
10-M-COMg-082-	<u> </u>	tational			advanced							
m01	ECTS	4	Duratior		1 semester	-	ing (not) successfully co			undergraduate		
	Course					. ,	tact hours) and course lar	<u> </u>	-			
	Method of assessment			project in the form of programming exercises (type and expenditure of time to be specified by the lecturer at the beginning of the course) Assessment offered: once a year, summer semester Language of assessment: German, English if agreed upon with the examiner								
	other p	rerequis	ites	Admission prerequisite to assessment: regular attendance of exercises (attendance monitored, a maximum of one incident of unexcused absence).								
	Referre	d to in L	PO I	§ 73 (1) 5. Mathematik Angewandte Mathematik								
10-M-PRGk-082-	Program	mming o	ourse foi	stude	nts of Mathematic	s and other subject	cts, simple					
m01	ECTS	2	Duratior	ו	1 semester	Method of grad	ing (not) successfully co	mpleted	Modul level	undergraduate		
	Course	s					hours) and course langua	-				
	Method of assessment			project in the form of programming exercises (type and expenditure of time to be specified by the lecturer at the beginning of the course) Language of assessment: German, English if agreed upon with the examiner								
	other p	rerequis	ites	Admi: abser		to assessment: reg	gular attendance (attenda	ince moni	tored, a maxim	um of one incident of unexcused		
	Referre	d to in L	POI	§73 (1) 5. Mathematik A	Angewandte Mathe	matik					

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10-M-NM1-082-	Numer	ical Mat	hematics	1							
m01	ECTS	8	Duration	า	1 semester	Method of grading	g numerical grade		Modul level	undergraduate	
	Course	S		V + Ü	' + Ü (no information on SWS (weekly contact hours) and course language available)						
	Metho	d of ass	essment	written examination (approx. 90 minutes); if announced by the lecturer, the written examination can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English if agreed upon with the examiner							
	other p	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.						
	Referre	d to in l	POI	§73 (1) 5. Mathematik	Angewandte Mathema	atik				
10-M-NM2-082-	Numer	ical Mat	hematics	2							
m01	ECTS	5	Duration	า	1 semester	Method of grading	g numerical grade		Modul level	undergraduate	
	Courses			V + Ü	V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment			written examination (approx. 90 minutes); if announced by the lecturer, the written examination can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English if agreed upon with the examiner							
	other prerequisites			tive d on to the le sessn	etails at the beg assessment. If s cturer will put th nent in the curre	inning of the course. Re tudents have obtained eir registration for asse	egistration for the cou the qualification for essment into effect. S	rse will be o admission to tudents who	considered a de o assessment c o meet all prere	form 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-	
	Referre	ed to in l	POI	§73 (1) 5. Mathematik	Angewandte Mathema	atik				
10-M-PRG-082-	Progra	mming	course fo	r stude	students of Mathematics and other subjects						
m01	ECTS	3	Duration	1	1 semester	Method of grading	g (not) successfully	completed	Modul level	undergraduate	
	Course	Courses			P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment			project in the form of programming exercises (as specified at the beginning of the course) Language of assessment: German, English if agreed upon with the examiner							
	other prerequisites			Admission prerequisite to assessment: regular attendance (attendance monitored, a maximum of one incident of unexcused absence).							
	Referred to in LPO I			§ 73 (1) 5. Mathematik Angewandte Mathematik							

10-M-COM-082-	Computerorier	nted Math	nematics							
m01	ECTS 3	Duratio	n 1 semester	Method of grading (not) successf	ully completed Modul	level underg	raduate			
	Courses		V + Ü (no information	+ Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of ass	essment	project in the form of programming exercises (as specified at the beginning of the course) Assessment offered: once a year, summer semester Language of assessment: German, English if agreed upon with the examiner							
	other prerequis	citoc								
			unexcused absence).							
	Referred to in L			< Angewandte Mathematik						
10-M-MWR-092-	Modelling and									
m01	ECTS 8	Duration		Method of grading numerical grad		level underg	raduate			
	Courses			on SWS (weekly contact hours) and cou						
	Method of ass	essment		n (approx. 90 minutes; usually chosen) ation in groups (groups of 2, approx. 30		one candidate	each (approx. 20 minu-			
10-I-EIN-072-m01	Introduction to	o Compute	er Science for Students	s of all Faculties						
	ECTS 10	Duratio	n 1 semester	Method of grading numerical grad	de Modul	level underg	raduate			
	Courses		V + Ü + Ü (no informat	tion on SWS (weekly contact hours) and	course language availab	le)				
	Method of ass	essment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral ex- amination in groups (groups of 2: 30 minutes, groups of 3: 40 minutes)							
	other prerequis	sites	Admission prerequisi course.	te to assessment: academic requiremen	its to be met in exercises	as specified at	the beginning of the			
11-BXN5-112-m01	Current Topics in Nanostructure Technology									
	ECTS 5	Duratio	n 1 semester	Method of grading numerical grad	de Modul	level underg	raduate			
	Courses		V + R (no information	on SWS (weekly contact hours) and cou	rse language available)					
	Method of asso	essment	a) written examination (approx. 120 minutes) or b) oral examination of one candidate each or oral examination in gro prox. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) pres on/seminar presentation (approx. 30 minutes) Language of assessment: German, English							
	other prerequis	sites	Approval by examinat	ion committee required.						
11-BXN6-112-m01	Current Topics	in Nanos	structure Technology							
	ECTS 6	Duration	n 1 semester	Method of grading numerical grad	de Modul	level underg	raduate			
	Courses		V + R (no information	on SWS (weekly contact hours) and cou	rse language available)					
	Method of ass	essment	a) written examination (approx. 120 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Language of assessment: German, English							

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11-BXN8-112-m01	Current	t Topics	in Nanos	tructu	re Technology						
	ECTS	8	Duration	n	1 semester	Method of grading	g numerical grade	Modul level	undergraduate		
	Course	S	•	V + R	(no information o	n SWS (weekly contac	t hours) and course langua	ige available)			
	Method of assessment			prox. on/s	30 minutes per ca eminar presentatio		report (approx. 8 to 10 pag		r oral examination in groups (ap- : 1 to 4 weeks) or d) presentati-		
	other prerequisites			Appr	Approval by examination committee required.						
11-LVW-092-m01	Introduction to LabVIEW										
	ECTS	6	Duratio	n	1 semester	Method of grading	g numerical grade	Modul level	graduate		
	Course	S	1	V + Ü	(no information o	n SWS (weekly contac	t hours) and course langua	age available)	<u>.</u> -		
	Method of assessment other prerequisites			prox. to 10 prox. Asse noun 2009	30 minutes per ca pages, time to co 60 minutes) ssment offered: W ced in due form u	Indidate, for modules nplete: 1 to 4 weeks) hen and how often as	with less than 4 ECTS cred or d) presentation/seminar sessment will be offered de	its approx. 20 minute r presentation (approx epends on the metho	es) or c) project report (approx. 8 x. 30 minutes) or e) project (ap- id of assessment and will be an- and examination regulations)		
				Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the 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	Duration	n	1 semester	Method of grading	g numerical grade	Modul level	graduate		
	Course	s		R + V	R + V (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment			prox. to 10 Asse noun 2009	30 minutes per ca pages, time to co ssment offered: W ced in due form u	indidate, for modules nplete: 1 to 4 weeks) hen and how often as nder observance of Se	with less than 4 ECTS cred or d) presentation/seminar sessment will be offered de	its approx. 20 minute r presentation (appro. epends 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 prerequisites			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.							

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11-A1-092-m01	Compu	Itationa	l Physics							
	ECTS	6	Duration	า	1 semester	Method of gradir	g numerical grade	Modul level	undergraduate	
	Course	S		V + Ü	(no information or	n SWS (weekly conta	ct hours) and course la	anguage available)		
	Method of assessment			Asse	ssment offered: Wi ced in due form un				nod of assessment and will be an- c and examination regulations)	
	other p	orerequi	sites	tive d on to the le sessr	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- ive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, he lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- ication for admission to assessment anew.					
	cation	oants ar of place	es			eneral key skills (AS	Q): 15 places. Places w	vill be allocated by lot.		
1-SDC-131-m01	Statist	ics, Dat	a Analysi	s and (Computer Physics					
	ECTS	4	Duration	1	1 semester	Method of gradir	g numerical grade	Modul level	graduate	
	Course	S		V + R	(no information or	n SWS (weekly conta	ct hours) and course la	inguage available)		
				on/se Asses noun 2009	prox. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentati- on/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be an- nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English					
	other p	orerequi	sites	tive d on to the le	letails at the begin assessment. If stu ecturer will put thei	ning of the course. F Idents have obtaine	egistration for the cou d the qualification for a essment into effect. St	rse will be considered a Idmission to assessmen	inform students about the respect declaration of will to seek admiss t over the course of the semester, requisites will be admitted to as-	
Thesis (10 ECTS cro										
						of the overall grade	of the Bachelor's degree	ee.		
1-BA-N-072-m01		or Thes	is Nanost	ructur	e Technology					
	ECTS	10	Duration	1	1 semester	Method of gradir	g numerical grade	Modul level	undergraduate	
	Course	S		no co	urses assigned					
	Metho	d of ass	essment	writte	en thesis (approx. :	25 pages)				
Subject-specific Ko Successful comple ting of 5/10. Succe	tion of n	nodule 1	11-IP is ma	indato	ry; the grade achie additional module	eved in module 11-IP e worth no less than	will factor into the grad 6 ECTS credits is requi	de awarded for the area (red; the grade achieved	of transferable skills with a weigh- in this additional module will facto	

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into the grade awarded for the area of transferable skills with a weighting of 5/10. Modules that were accredited in the specialisation Analytik und Messtechnik (Analytics and Measurement Technology) cannot be accredited in the area of subject-specific transferable skills and vice versa.

Industrial Work Placement (10 ECTS credits)

Successful completion of module 11-IP is mandatory; the grade achieved in module 11-IP will factor into the grade awarded for the area of transferable skills with a weighting of 5/10.

11-IP-092-m01	Industr	ial Pra	tical Coul	se Nanostructure Technology								
	ECTS	10	Duration	ו 19	semester	Method of grading numerical grade	N	Aodul level	undergraduate			
	Course	S		P + S (no	P + S (no information on SWS (weekly contact hours) and course language available)							
	Methoo	l of ass	essment	Assessm	a) placement report and b) presentation/seminar presentation (approx. 30 to 90 minutes), weighted 1:4 Assessment offered: When and how often assessment will be offered depends on the method of assessment and nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regu 2009.							
	Module comple		essfully		11-EIN and 11-KP							
	other p	rerequi	sites	tive deta on to ass the lectu sessmen	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.							
Compulsory Electiv												
de awarded for the rement Technology	tion of a area of) cannot	t least o transfei be acc	one additi able skills redited in	s with a w the area o	eighting of 5/1 of subject-spec	ess than 6 ECTS credits is required; the grad to. Modules that were accredited in the spec cific transferable skills and vice versa.	e achieved in cialisation Ana	this additior alytik und Me	nal module will factor into the gr esstechnik (Analytics and Meası			
de awarded for the rement Technology	tion of a area of cannot Key Qu	t least o transfer be acc alificat	one additi able skills redited in ions for S	s with a w the area o t udents o	eighting of 5/1 of subject-spec f Nanostructur	to. Modules that were accredited in the spec cific transferable skills and vice versa. re Technology	cialisation Ana	alytik und Me	esstechnik (Analytics and Meası			
de awarded for the rement Technology	tion of a area of t cannot Key Qu ECTS	t least o transfer be acc alificat 5	one additi able skills redited in	with a work the area of the ar	eighting of 5/1 of subject-spec f Nanostructur semester	to. Modules that were accredited in the spec cific transferable skills and vice versa. re Technology Method of grading numerical grade	cialisation Ana	alytik und Me Aodul level	hal module will factor into the gr esstechnik (Analytics and Measu undergraduate			
de awarded for the rement Technology	tion of a area of t cannot Key Qu ECTS Course	t least o transfer be acc alificat 5 s	one additi able skills redited in ions for Si Duratior	with a with a with a with a reader of the area of the	eighting of 5/1 of subject-spec f Nanostructur semester information o	to. Modules that were accredited in the spec cific transferable skills and vice versa. re Technology Method of grading numerical grade on SWS (weekly contact hours) and course la	cialisation Ana	alytik und Me Aodul level able)	esstechnik (Analytics and Measu undergraduate			
de awarded for the rement Technology	tion of a area of t cannot Key Qu ECTS Course	t least o transfer be acc alificat 5 s	one additi able skills redited in ions for Si Duratior	with a w the area of tudents of N = 1 s V + R (no a) writter prox. 30 on/semin	eighting of 5/1 of subject-spec f Nanostructur semester information o n examination minutes per ca nar presentatio	to. Modules that were accredited in the spec cific transferable skills and vice versa. re Technology Method of grading numerical grade	cialisation Ana N nguage availa n of one cand	alytik und Me Aodul level able) lidate each o	esstechnik (Analytics and Measu undergraduate r oral examination in groups (ap			
de awarded for the rement Technology	tion of a area of t cannot Key Qu ECTS Course	t least of transfer be acc alificat 5 s I of ass	ne additi able skills redited in ions for S Duration essment	with a w the area of tudents of a) vritter prox. 30 on/semin Language	eighting of 5/1 of subject-spect f Nanostructur semester information on examination minutes per ca nar presentation e of assessme	to. Modules that were accredited in the specific transferable skills and vice versa. re Technology Method of grading numerical grade on SWS (weekly contact hours) and course la (approx. 120 minutes) or b) oral examinatio andidate) or c) project report (approx. 8 to 10 on (approx. 30 minutes)	cialisation Ana N nguage availa n of one cand	alytik und Me Aodul level able) lidate each o	esstechnik (Analytics and Measu undergraduate r oral examination in groups (ap			
de awarded for the rement Technology 11-NFSQ5-112-mo1	tion of a area of f cannot Key Qu ECTS Course Method	t least of transfer be acc alificat 5 s d of ass rerequi	ne additi able skills redited in ions for S Duration essment sites	with a w the area of tudents of N + R (no a) writter prox. 30 on/semi Languag Approval	eighting of 5/1 of subject-spect f Nanostructur semester information on examination minutes per ca nar presentation e of assessme	to. Modules that were accredited in the specific transferable skills and vice versa. re Technology Method of grading numerical grade on SWS (weekly contact hours) and course la (approx. 120 minutes) or b) oral examinatio andidate) or c) project report (approx. 8 to 10 on (approx. 30 minutes) int: German, English on committee required.	cialisation Ana N nguage availa n of one cand	alytik und Me Aodul level able) lidate each o	esstechnik (Analytics and Measu undergraduate r oral examination in groups (ap			
de awarded for the rement Technology 11-NFSQ5-112-mo1	tion of a area of f cannot Key Qu ECTS Course Method	t least of transfer be acc alificat 5 s d of ass rerequi	ne additi able skills redited in ions for S Duration essment sites	with a w the area of tudents of N 1 S V + R (no a) writter prox. 30 on/semi Language Approval tudents of	eighting of 5/1 of subject-spec f Nanostructur semester information o n examination minutes per ca nar presentatio e of assessme l by examination	to. Modules that were accredited in the specific transferable skills and vice versa. re Technology Method of grading numerical grade on SWS (weekly contact hours) and course la (approx. 120 minutes) or b) oral examinatio andidate) or c) project report (approx. 8 to 10 on (approx. 30 minutes) int: German, English on committee required.	ialisation Ana N Inguage availa n of one cand o pages, time	alytik und Me Aodul level able) lidate each o	esstechnik (Analytics and Measu undergraduate r oral examination in groups (ap			
de awarded for the rement Technology 11-NFSQ5-112-mo1	tion of a area of f cannot ECTS Course Method other p Key Qu	t least of transfer be acc alificat 5 s d of ass rerequi alificat 6	one additi able skills redited in ions for Si Duratior essment sites ions for Si	with a w the area of tudents of a) writter prox. 30 on/semin Languag Approval tudents of b) 1 5	eighting of 5/1 of subject-spect f Nanostructur semester information of n examination minutes per ca nar presentation e of assessme l by examination f Nanostructur semester	to. Modules that were accredited in the specific transferable skills and vice versa. re Technology Method of grading numerical grade Method of grade Method of grade Method of grading numerical grade Method of grade Method of grade Method of g	cialisation Ana N Inguage availa n of one cand o pages, time N	alytik und Me Aodul level able) lidate each o to complete: Aodul level	esstechnik (Analytics and Measu undergraduate r oral examination in groups (ap : 1 to 4 weeks) or d) presentati-			
de awarded for the	tion of a area of f cannot ECTS Course Method other p Key Qu ECTS Course	t least of transfer be acc alificat 5 s d of ass rerequi alificat 6 s	one additi able skills redited in ions for St Duration essment sites ions for St Duration	with a w the area of tudents of N 1 2 V + R (no a) writter prox. 30 on/semi Language Approval tudents of N 1 2 V + R (no a) writter prox. 30 on/semi a) writter	eighting of 5/1 of subject-spect f Nanostructur semester information on examination minutes per can nar presentation e of assessme l by examination f Nanostructur semester information on examination minutes per can nar presentation	a. Modules that were accredited in the specific transferable skills and vice versa. re Technology Method of grading numerical grade on SWS (weekly contact hours) and course la (approx. 120 minutes) or b) oral examinatio andidate) or c) project report (approx. 8 to 10 on (approx. 30 minutes) ent: German, English on committee required. re Technology Method of grading numerical grade	ialisation Ana N nguage availa n of one cand o pages, time N nguage availa n of one cand	alytik und Me Aodul level able) lidate each o to complete: Aodul level able) lidate each o	esstechnik (Analytics and Measu undergraduate r oral examination in groups (ap : 1 to 4 weeks) or d) presentati- undergraduate r oral examination in groups (ap			

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11-NAN-092-m01	Nanoai	nalytics									
	ECTS	6	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			R + V (no information on SWS (weekly contact hours) and course language available)							
	Methoo	1 of asse		a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English							
		prerequis		tive de on to a the lee sessm ficatio	etails at the beginr assessment. If stuc cturer will put their pent in the current on for admission to	ning of the course. Reg dents have obtained t r registration for asses or in the subsequent assessment anew.	gistration for the course will be he qualification for admission to sment into effect. Students wh	considered a de to assessment c o meet all prere	form students about the respec- eclaration of will to seek admissi- over the course of the semester, quisites will be admitted to as- ents will have to obtain the quali-		
11-BMT-092-m01	Biophysical Measurement Technology in Medical Science										
	ECTS 6 Duratio										
	Course	s		R + V (no information on SWS (weekly contact hours) and course language available)							
	Methoo	l of asse		a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (ap prox. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 30 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be an nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English							
	other p	orerequis		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-LMB-092-m01	Labora	tory and	Measure	ement Technology in Biophysics					
	ECTS	6	Duratior	ation 1 semester Method of grading numerical grade Modul level					graduate
	Courses			R + V (no information on SWS (weekly contact hours) and course language available)					
				prox. : to 10 p Asses nounc 2009.	30 minutes per cand bages, time to comp sment offered: When red in due form unde	lidate, for modules w lete: 1 to 4 weeks) or n and how often ass er observance of Sec	vith less than 4 ECTS credits app r d) presentation/seminar prese	prox. 20 minute entation (approx s 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.					