

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: 2012

Abbreviations used: Course types: **E** = field trip, **K** = colloquium, **O** = conversatorium, **P** = placement/lab course, **R** = project, **S** = seminar, **T** = tutorial, **Ü** = exercise, **V**

= lecture

Term: **SS** = summer semester, **WS** = winter semester

Methods of grading: NUM = numerical grade, B/NB = (not) successfully completed

Regulations: (L)ASPO = general academic and examination regulations (for teaching-degree programmes), FSB = subject-specific provisions, SFB

= list of modules

Other: **A** = thesis, **LV** = course(s), **PL** = assessment(s), **TN** = participants, **VL** = prerequisite(s)

Conventions for the l modules in this SFB:

Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not creditable for bonus.

Information on assessment procedures:

Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the method of assessment to be used in the current semester by two weeks after the start of the course at the latest and will communicate this in the customary manner.

Should a module comprise more than one graded assessment, all assessments will be equally weighted, unless otherwise stated below.

Should the assessment comprise several individual assessments, successful completion of the module will require successful completion of all individual assessments.

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

ASP02009

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

28-Nov-2012 (2012-184) except for mandatory electives added in Fast Track procedure at a later time

04-Nov-2014 (2014-72)

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

Every module will be described using the following form:

Abbreviation	Module title										
	ECTS		Duration	(in semesters)	Method of grading		Module level				
	Courses		To be spe	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	ssessme	ent								
	Only after su completion o		l if applica	if applicable							
	Other prereq	uisites	if applica	ble							
	Participants and allocation of places		ocati- if applica	if applicable							
	Additional information		on if applica	if applicable							
	Referred to in	n LPO I	if applica	if applicable (examination regulations for teaching-degree programmes)							

Compulsory Cours	es (92 ECTS c	redits)								
Nanostructure Tec	hnology (NP)	(10 ECTS cre	edits)							
11-EIN-092-m01	Introduction	ı to Nanosci	ence	ence						
	ECTS 6	Duratio	n	2 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V + S	V + S (no information on SWS (weekly contact hours) and course language available)						
	Method of a	ssessment		written examination (approx. 120 minutes, for modules with less than 4 ECTS credits approx. 90 minutes; unless otherwise specified)						
	other prereq	quisites	tive don to the le	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, he lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.						
	Participants cation of pla	aces	Only as part of pool of general key skills (ASQ): 15 places. Places will be allocated by lot.							
11-HSN-122-m01		eminar Nan	ostructure Technology							
	ECTS 4	Duratio		1 semester		numerical grade	Modul level	undergraduate		
	Courses		S (no	information on SWS	(weekly contact ho	urs) and course language avai	lable)			
	Method of a	ssessment		approx. 30 to 45 mir uage of assessment		on				
	other prereq	quisites	requi at the sessr turer in the	Admission prerequisite to assessment: regular attendance and successful preparation of seminar presentation. 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 assessmen 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.						

Chemistry (CH) (10	ECTS cr	edits)								
08-CP1-102-m01	Genera	al Chemi	stry for P	hysics	and Engineers					
	ECTS	10	Duratio	1	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) Assessment in this module comprises the assessments in the individual module components as specified below. Unless						
	Metho	d of ass	essment	Asses Asses Asses	sment in module co eering and natural so gering and natural so written examination sment in module co gering ECTS, Method of gering prerequisite for parts sment in module co gering services so	ful completion of the mponent o8-IOC-1-0 cience grading: numerical gen (approx. 60 minute mponent o8-CP1-3-0 grading: (not) successit: Vortestate (pre-expages), Nachtestate (d: once a year, summul completion of module ticipation in module	e module will require successfuerate or stude (rade (r	l completion of ents of medicine mistry (lab) ninutes each), a x. 10 minutes each	all individual assessments. e, biomedicine, dental medicine, ssessment of practical perforach) odule component o8-CP1-1 is a	

Experimental Phys								1 2 12		
11-KP-092-m01						<u> </u>	, Electricity, Magnetism	<u> </u>	-	
	ECTS	16	Duration	1	2 semester	Method of grading	numerical grade		Modul level	undergraduate
	Course	es		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)						
	Method of assessment			This m	nodule has the foll	lowing assessment c	omponents	sik 1 (Class	sical Physics 1)): written examination (approx.
				2. Top 120	ics covered in lect minutes).				·)): written examination (approx. te each (approx. 30 minutes,
				usu	ally chosen) or wr	itten examination (ap				
				Succe 2.	ssful completion o	of approx. 50% of pra	ctice work each is a prer	requisite f	or admission t	to assessment components 1 and
				highly	recommended to	attend both courses		assical Phy	/sics 1) and Kĺa	onent 1 and/or 2. Students are assische Physik 2 (Classical Phy-
				Stude To pas	nts must register f ss this module, stu	for assessment comp udents must first pas	onents 1 through 3 onlin s assessment componer	ne (details nt 1 or 2 ar	to be announded the to be announded to the total the tot	ced). pass assessment component 3.
							nt 1 or 2 (whichever is be e awarded for the modu		the grade achi	eved in assessment component 3
	other p	rerequi	isites	Bridge	e course Mathema	tische Rechenmetho	den der Physik (Mathem	natical Met	thods of Physic	cs) for first-semester students.

11-KM-092-m01	Conde	nsed Ma	tter (Qua	ta, Atoms, Molecules	, Atoms, Molecules, Solid State Physics)						
	ECTS	16	Duration	2 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	S		hours) + Ü (2 weekly o	e 1 (Quanten, Atome, Moleküle) (Condensed N contact hours), once a year (winter semester)		,				
					e 2 (Festkörperphysik 1) (Condensed Matter 2 s), once a year (summer semester)	(Solid State Physics)): V (4	weekly contact hours) + Ü (2				
	Method	d of ass			following assessment components ectures and exercises in part 1 (Kondensierte .	Materie 1 (Condensed Mat	ter 1)): written examination (ap-				
				2. Topics covered in le prox. 120 minutes).	ectures and exercises in part 2 (Kondensierte .	·					
					ectures and exercises in parts 1 and 2: oral exwritten examination (approx. 120 minutes).	kamination of one candidat	te each (approx. 30 minutes,				
					ent 3 will be offered in German; English if agro on of approx. 50% of practice work each is a p						
				highly recommended densed Matter 2). The Students must registe	ion to assessment component 3, students mu to attend both courses Kondensierte Materie e topics discussed in these two courses will b er for assessment components 1 through 3 or	e 1 (Condensed Matter 1) ar be covered in assessment c nline (details to be announc	nd Kondensierte Materie 2 (Concomponent 3.				
				The grade achieved in	students must first pass assessment comporn assessment component 1 or 2 (whichever is towards the overall grade awarded for the mo	better) and the grade achi					

	(DD) (to ECTS avadita)										
Lab Course Physics Modules in this are				overall	grade of the Bachel	or's degree.					
11-P-PA-112-mo1	Lab Cour				<u> </u>						
	ECTS	5	Duratio	n	1 semester	Method of grading	(not) successfully comp	leted Modul level	undergraduate		
	Courses			Auswertung von Messungen und Fehlerrechnung (Measurements and Data Analysis): V (1 weekly contact hour) + Ü (1 weekly contact hour), once a year (winter semester) Beispiele aus Mechanik, Wärmelehre und Elektrik (Examples from Mechanics, Thermodynamics and Electricity, BAM): P (2 weekly contact hours)							
	Method	of asse	essment	This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 120 minutes) 2. Lab course: a) Preparing, performing and evaluating the experiments will be considered successfully completed if a Testat (exam) is passed. b) Talk (with discussion) to test the students' understanding of the physics-related contents of the course (approx. 30 minutes).							
				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.							
	Referred	to in L		§ 53 (§ 77 (§ 53 (1) 1. a) Physik Mechanik, Wärmelehre, Elektrizitätslehre, Optik, der speziellen Relativitätstheorie § 53 (1) 1. c) Physik physikalische Grundpraktika § 77 (1) 1. a) Physik "Grundlagen der Experimentalphysik" § 77 (1) 1. d) Physik "physikalische Praktika"						
11-P-NB-122-m01	Laborato	ory Coι	ırse Nanc	struct	ure Technology B						
	ECTS 2	4	Duratio		1 semester		(not) successfully comp		undergraduate		
	Courses						rs) and course language	· · · · · · · · · · · · · · · · · · ·			
	Method	of asse	essment	Preparing, performing and evaluating (lab report) the experiments will be considered successfully completed if a Testat (exam) is passed. Experiments that were not successfully completed can be repeated once. Talk (with discussion; approx. 30 minutes) to test the candidate's understanding of the physics-related contents of the module component. Talks that were not successfully completed can be repeated once. Both components of the assessment have to be successfully completed.							
	Modules successfully completed			11-P-P	PA						

11-P-NC-122-m01	Advanced Laboratory Course Nanostructure Technology C										
	ECTS 4 Duration	1 semester Method of grading (not) successfully completed Modul level undergraduate									
	Courses	P (no information on SWS (weekly contact hours) and course language available)									
	Method of assessment	Preparing, performing and evaluating (lab report) the experiments will be considered successfully completed if a Testat (exam) is passed. Experiments that were not successfully completed can be repeated once. Talk (with discussion; approx. 30 minutes) to test the candidate's understanding of the physics-related contents of the module component. Talks that were not successfully completed can be repeated once. Both components of the assessment have to be successfully completed.									
	Modules successfully completed	11-P-PA and 11-P-NB									
Mathematics (M) (24 ECTS credits)										
10-M-NST12-092-	Mathematics 1 and 2 for	students in Nanostructure Technology									
mo1	ECTS 16 Duration	1 2 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. • 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)									
	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 10-M-NST12-1-092: Mathematics 1 for students of Nanostructure Technology Mathematics 1 for students of Nanostructure Technology • 8 ECTS, Method of grading: (not) successfully completed • written examination (approx. 90 to 120 minutes, usually chosen) or oral examination of one candidate each (approx. 20 minutes) or oral examination in groups (groups of 2, approx. 30 minutes) • Language of assessment: German, English if agreed upon with the examiner									
		 written examination (approx. 90 to 120 minutes, usually chosen) or oral examination of one candidate each (approx. 20 minutes) or oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English if agreed upon with the examiner Other prerequisites: Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew. 									
	other prerequisites	By way of exception, additional prerequisites are listed in the section on assessments.									
Bachelor's with 1 major N	lanostructure Technology (2012)	JMU Würzburg ● generated 26-Aug-2024 ● exam. reg. data record 82 224 - - H 2012 page 8 / 47									

11-MPl3-062-m	1 Mathe	matics 3	for stude	ents of	Physics and Engine	ering					
	ECTS	8	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	es		V + Ü	V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Metho	Method of assessment			written examination (approx. 120 minutes)						
	other p	orerequis		to qua course obtain for as	alify for admission to e. Registration for the ned the qualification sessment into effect	assessment. The legent course will be considered for admission to assets. Students who meet	cturer will inform students abou idered a declaration of will to s sessment over the course of the all prerequisites will be admitt	ut the respective seek admission e semester, the ted to assessme	tertain prerequisites must be met be details at the beginning of the to assessment. If students have lecturer will put their registration ent in the current or in the subse- for admission to assessment an-		

Theoretical Physics (TP) (16 ECTS credits)

Students interested in participating in the FOKUS programme must take modules 11-TQM-F-2, 11-STE-1 and 11-QSN-P. Module component 11-TQM-F-2, which will prepare students for studying in the Master's programme FOKUS, will be offered in the form of a block course between the lecture periods of the winter and summer semesters (for students who took up studies in winter semester, block course will be offered between third and fourth subject semester).

(a weekly contact hours) + Ú (2 weekly contact hours), once a year (winter semester) Statistische Mechanik und Thermodynamik (Statistical Mechanics and Thermodynamics): V (4 weekly contact hours) + Ü (2 weekly contact hours), once a year (winter semester) Quantenmechanik (Quantum Mechanics): V (4 weekly contact hours) + Ü (2 weekly contact hours), once a year (summer semester) Quantenmechanik für FOKUS-Studierende (Quantum Mechanics for FOKUS Students): V (4 weekly contact hours) + Ü (2 weekly contact hours) + Ü (2 weekly contact hours) + Ü (4 weekly contact hours) + Ü (2 weekly contact hours) + I (4 weekly contact hours), once a year (block taught during semester break between summer and winter semester) Method of assessment This module has the following assessment components 1. Topics covered in lectures and exercises in part 1 (Theoretische Physik 1 (Theoretical Physics 2)): written examination (approx. 120 minutes, usually chosen) or oral examination of one candidate each (approx. 30 minutes). 2. Topics covered in lectures and exercises in part 2 (Theoretische Physik 2 (Theoretical Physics 2)): written examination (approx. 120 minutes, usually chosen) or oral examination (approx. 120 minutes). 3. Topics covered in lectures and exercises in part 2 (guantenmechanik (Quantum Mechanics)): written examination (approx. 120 minutes). 4. Topics covered in lectures and exercises in part 2 (Quantenmechanik (Quantum Mechanics)): written examination (approx. 120 minutes). 5. Topics covered in lectures and exercises in part 2 (Quantenmechanik (Quantum Mechanics)): written examination (approx. 120 minutes). 6. Topics covered in lectures and exercises in parts 1 and 2 (assessment in modules Theoretische Physik (Theoretical Physics) 1 and 2): oral examination of one candidate each (approx. 30 minutes). 7. Topics covered in lectures and exercises in parts 1 and 2 (assessment in modules Theoretische Physik (Theoretical Physics) 1 and 2): oral examination of one candidate each (approx. 120 minutes). 8. Topics cov	2-m01 Theoretical Phy	rsics for Students of Nanostructure Technology
(4, weekly contact hours) + Û (2 weekly contact hours), once a year (winter semester) Theoretische Physik 2 (Lehrant, Nanostrukturechnik) (Theoretical Physics 2 (Teaching Degree, Nanostructure Technology)): (4, weekly contact hours), once a year (winter semester) Statistische Mechanik und Thermodynamik (Statistical Mechanics and Thermodynamics): V (4 weekly contact hours), once a year (winter semester) Quantenmechanik (Quantum Mechanics): V (4 weekly contact hours), once a year (summer semester) Quantenmechanik (Quantum Mechanics): V (4 weekly contact hours), once a year (summer semester) Quantenmechanik (Frokus): V (4 weekly contact hours) + Ü (2 weekly contact hours) + Ü (2 weekly contact hours) + Ü (2 weekly contact hours) + T (1 weekly contact hour), once a year (block taught during semester break between summer and winter semester) Method of assessment This module has the following assessment components 1 (2 pipes covered in lectures and exercises in part 1 (Theoretische Physik 1 (Theoretical Physics 1)): written examination (approx. 120 minutes, usually chosen) or oral examination of one candidate each (approx. 30 minutes). 2. Topics covered in lectures and exercises in part 1 (Statistische Mechanik und Thermodynamik (Statistical Mechanics and Thermodynamics)): written examination (approx. 120 minutes). 3. Topics covered in lectures and exercises in part 2 (Quantenmechanik (Quantum Mechanics)): written examination (approx. 120 minutes, usually chosen) or oral examination of one candidate each (approx. 30 minutes). 4. Topics covered in lectures and exercises in part 2 (Quantenmechanik (Tir FOKUS-Studierned (Quantum Mechanics for FOKUS Students)): written examination (approx. 120 minutes, usually chosen) or oral examination of one candidate each (approx. 30 minutes). 5. Topics covered in lectures and exercises in part 1 and 2 (assessment in module Theoretische Physik (Theoretical Physics) 1 and 2): oral examination of one candidate each (approx. 30 minutes). 7. Topics covered in lectures and exercises in	ECTS 16	Duration 2 semester Method of grading numerical grade Modul level undergraduate
Method of assessment This module has the following assessment components 1. Topics covered in lectures and exercises in part 1 (Theoretische Physik 1 (Theoretical Physics 1)): written examination (approx. 120 minutes, usually chosen) or oral examination of one candidate each (approx. 30 minutes). 2. Topics covered in lectures and exercises in part 2 (Theoretische Physik 2 (Theoretical Physics 2)): written examination (approx. 120 minutes, usually chosen) or oral examination of one candidate each (approx. 30 minutes). 3. Topics covered in lectures and exercises in part 1 (Statistische Mechanik und Thermodynamik (Statistical Mechanics and Thermodynamics)): written examination (approx. 120 minutes, usually chosen) or oral examination of one candidate each (approx. 30 minutes). 4. Topics covered in lectures and exercises in part 2 (Quantenmechanik (Quantum Mechanics)): written examination (approx. 120 minutes, usually chosen) or oral examination of one candidate each (approx. 30 minutes). 5. Topics covered in lectures and exercises in part 2 (Quantenmechanik für FOKUS-Studierende (Quantum Mechanics for FOKUS students)): written examination (approx. 120 minutes). 6. Topics covered in lectures and exercises in parts 1 and 2 (assessment in modules Theoretische Physik (Theoretical Physics) 1 and 2): oral examination of one candidate each (approx. 30 minutes, usually chosen) or written examination (approx. 120 minutes). 7. Topics covered in lectures and exercises in parts 1 and 2 (assessment in module Theoretische Physik für Studierende der Nanostrukturechnik (Theoretical Physics for Students of Nanostructure Technology)): oral examination of one candidate each (approx. 30 minutes, 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 1 through 5. To qualify for admission to assessment component 7, students must pass assessment component 3 and/or 5. Students are highly recommended to attend both	Courses	(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) Statistische Mechanik und Thermodynamik (Statistical Mechanics and Thermodynamics): V (4 weekly contact hours) + Ü (2 weekly contact hours), once a year (winter semester) Quantenmechanik (Quantum Mechanics): V (4 weekly contact hours) + Ü (2 we
or Nanostructure Technology (2012) JMU Würzburg • generated 26-Aug-2024 • exam. reg. data record 82 224 - - H 2012 page 10 / 47	Method of asse	This module has the following assessment components 1. Topics covered in lectures and exercises in part 1 (Theoretische Physik 1 (Theoretical Physics 1)): written examination (approx. 120 minutes, usually chosen) or oral examination of one candidate each (approx. 30 minutes). 2. Topics covered in lectures and exercises in part 2 (Theoretische Physik 2 (Theoretical Physics 2)): written examination (approx. 120 minutes, usually chosen) or oral examination of one candidate each (approx. 30 minutes). 3. Topics covered in lectures and exercises in part 1 (Statistische Mechanik und Thermodynamik (Statistical Mechanics and Thermodynamics)): written examination (approx. 120 minutes, usually chosen) or oral examination (approx. 30 minutes). 4. Topics covered in lectures and exercises in part 2 (Quantenmechanik (Quantum Mechanics)): written examination (approx. 120 minutes, usually chosen) or oral examination of one candidate each (approx. 30 minutes). 5. Topics covered in lectures and exercises in part 2 (Quantenmechanik für FOKUS-Studierende (Quantum Mechanics for FOKUS Students)): written examination (approx. 120 minutes, usually chosen) or oral examination of one candidate each (approx. 30 minutes). 6. Topics covered in lectures and exercises in parts 1 and 2 (assessment in modules Theoretische Physik (Theoretical Physics) 1 and 2): oral examination of one candidate each (approx. 30 minutes). 7. Topics covered in lectures and exercises in parts 1 and 2 (assessment in module Theoretische Physik für Studierende der Nanostrukturtechnik (Theoretical Physics for Students of Nanostructure Technology)): oral examination of one candidate each (approx. 30 minutes). Successful completion of approx. 50% of practice work each is a prerequisite for admission to assessment components 1 through 5. To qualify for admission to assessment component 6, students must pass assessment component 1 and/or 2. To qualify for admission to assessment component 7, students must pass assessment component 3 and/or 4 and/or 5. Students a
	r Nanostructure Technolog	y (2012) JMU Würzburg • generated 26-Aug-2024 • exam. reg. data record 82 224 - - H 2012 page 10 / 47 To pass this module, students must first pass assessment component 1 or 2 and must then pass assessment component 6 or

The grade achieved in assessment component 1 or 2 (whichever is better) or, respectively, in assessment component 3, 4 or 5 (whichever is the best) and the grade achieved in assessment component 6 or, respectively, assessment component 7 will

Nanostructure Tee	hnology									
11-A2-092-m01	Electronics									
	ECTS 6	Duratio	n	1 semester	Method of g	rading numerical grad	е	Modul level	undergraduate	
	Courses		V + Ü ((no information o	on SWS (weekly o	ontact hours) and cour	se language av	/ailable)		
	Method of as	ssessment	written examination (approx. 90 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009.							
	other prerequ	uisites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.							
	Participants cation of place		Only a	Only as part of pool of general key skills (ASQ): 15 places. Places will be allocated by lot.						
11-SPD-102-m01	Semiconduct	tor Physics	and Devices							
	ECTS 6	Duratio	n	1 semester	Method of g	rading numerical grad	е	Modul level	graduate	
	Courses	,	V + R (V + R (no information on SWS (weekly contact hours) and course language available)						
	Method of as	ssessment	written examination (approx. 90 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English							
	other prerequ	uisites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali-							

fication for admission to assessment anew.

11-HLF-092-m01	Semico	nducto	r Lasers -	Princi	ples and Current	Research						
	ECTS	6	Duration	1	1 semester	Method of grading numerical grade		Modul level	graduate			
	Course	S	,	R + V	no information (on SWS (weekly contact hours) and course la	anguage ava	ailable)	•			
	Method	d of ass	essment	prox. to 10 Asses nound 2009	30 minutes per or pages, time to consider	n (approx. 90 minutes) or b) oral examination candidate, for modules with less than 4 ECTS omplete: 1 to 4 weeks) or d) presentation/se When and how often assessment will be offe under observance of Section 32 Subsection 3 ent: German, English	S credits app minar prese red depend	prox. 20 minute entation (approx s on the metho	es) or c) project report (approx. 8 x. 30 minutes) d of assessment and will be an-			
	other p	rerequi	sites	tive d on to the le sessn	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.							
11-HNS-092-m01	Semico	Semiconductor Nanostructures										
	ECTS	6	Duration	1	1 semester	Method of grading numerical grade		Modul level	graduate			
	Course	S		R + V	(no information o	on SWS (weekly contact hours) and course la	anguage ava	ailable)				
	Method	d of ass	essment	prox. to 10 Asses nound 2009	30 minutes per or pages, time to consider	n (approx. 90 minutes) or b) oral examination candidate, for modules with less than 4 ECTS omplete: 1 to 4 weeks) or d) presentation/se When and how often assessment will be offe under observance of Section 32 Subsection 3 ent: German, English	S credits app minar prese red depend	prox. 20 minute entation (approx s on the metho	es) or c) project report (approx. 8 x. 30 minutes) d of assessment and will be an-			
	other p	rerequi	sites	tive d on to the le sessn	etails at the begi assessment. If s cturer will put th nent in the currer	must be met to qualify for admission to asse inning of the course. Registration for the coustudents have obtained the qualification for a leir registration for assessment into effect. So nt or in the subsequent semester. For assess to assessment anew.	irse will be o admission to tudents who	considered a de o assessment c o meet all prere	eclaration of will to seek admissi- over the course of the semester, quisites will be admitted to as-			

11-QTH-102-m01	Quantu	ım Tran	sport in S	emicor	nductor Nanostru	ctures						
	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)				
	Method	d of ass		prox. to 10 p Asses nound 2009.	30 minutes per ca pages, time to cor ssment offered: W ced in due form ur	indidate, for modules v mplete: 1 to 4 weeks) o hen and how often ass	with less than 4 ECTS credits appropriate appropriate (appropriate appropriate	prox. 20 minute entation (approx Is on the metho	d of assessment and will be an-			
	other p	rerequi		on to the le	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.							
11-NAN-092-m01	Nanoar	Nanoanalytics										
	ECTS 6 Duratio			1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		R + V	(no information or	n SWS (weekly contact	hours) and course language ava	ailable)				
	Method	d of ass	essment	prox. to 10 p Asses nound 2009.	30 minutes per ca pages, time to cor ssment offered: W ced in due form ur	indidate, for modules v nplete: 1 to 4 weeks) o hen and how often ass	with less than 4 ECTS credits app r d) presentation/seminar prese	prox. 20 minute entation (approx Is on the metho	d of assessment and will be an-			
	other p	rerequi		on to the le	etails at the begin assessment. If stu cturer will put the nent in the current	ining of the course. Reg udents have obtained t ir registration for asses	gistration for the course will be on the qualification for admission to sment into effect. Students who	considered a de o assessment c o meet all prere				

11-IEM-111-m01	Introdu	ction to	Electron	Micros	сору	,						
	ECTS	4	Duration		1 semester	Metho	d of grading	numerio	cal grade		Modul level	graduate
	Course	S		V + R (no information o	n SWS (we	ekly contact	t hours) a	nd course la	inguage av	ailable)	
	Method	d of ass		prox. 3 to 10 p Asses nounc 2009.	go minutes per ca pages, time to co sment offered: W	andidate, f mplete: 1 t /hen and h nder obser	or modules o 4 weeks) o ow often as: vance of Se	with less or d) prese sessment	than 4 ECTS entation/ser will be offer	credits ap ninar prese red depend	prox. 20 minut entation (approds ds on the meth	or oral examination in groups (aptes) or c) project report (approx. 8 ox. 30 minutes) od of assessment and will be ancand examination regulations)
	other p	rerequi		tive de on to a the lea sessm	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.							
11-SPI-102-m01	Spintro	nics									,	
	ECTS	6	Duration		1 semester	Metho	d of grading	numerio	cal grade		Modul level	graduate
	Course	S		V + R (no information o	n SWS (we	ekly contact	t hours) a	nd course la	inguage av	ailable)	
	Method	d of ass		a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 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							tes) or c) project report (approx. 8 ox. 30 minutes) od of assessment and will be an-	
	other prerequisites			tive de on to a the lea sessm	etails at the begings assessment. If st cturer will put the	nning of th udents have ir registrat t or in the	e course. Re ve obtained ion for asse subsequent	gistration the qualif ssment in	n for the cou fication for a nto effect. St	rse will be dmission t udents wh	considered a d to assessment o meet all prer	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-
11-BXN5-112-m01	Current	t Topics	in Nanos	ructur	e Technology							
	ECTS	5	Duration		1 semester	Metho	d of grading	numerio	cal grade		Modul level	undergraduate
	Course	S		V + R (no information o	n SWS (we	ekly contact	t hours) a	nd course la	inguage 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 examinati	on commit	tee required					

11-BXN6-112-m01	Current	Topics	in Nanos	tructu	re Technology							
	ECTS	6	Duration	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	d of asse	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	rerequis	sites	Appro	val by examination	committee required.						
11-BXN8-112-m01	Current	Topics	in Nanos	tructu	re Technology		'					
	ECTS	8	Duration	ı	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	S		V + R	(no information on	SWS (weekly contact hours) and course language av	⁄ailable)					
	Method	d of asse	essment	prox. on/se	written examination (approx. 120 minutes) or b) oral examination of one candidate each or oral examination in groups (aprox. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) anguage of assessment: German, English							
	other p	rerequis	sites	Appro	val by examination	committee required.						
11-BXP5-112-m01	Current	Topics	in Physic	:S	5							
	ECTS	5	Duration	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 av	/ailable)					
	Method	d of asse	essment	prox. on/se	a) written examination (approx. 120 minutes) or b) oral examination of one candidate each or oral examination in groups (prox. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentat on/seminar presentation (approx. 30 minutes) Language of assessment: German or English							
	other p	rerequis	sites	Appro	val by examination	committee required.						
11-BXP6-112-m01	Current	Topics	in Physic	S			,					
	ECTS	6	Duration	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 av	⁄ailable)					
	Method	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 or English										
	other p	rerequis	sites	Appro	oval by examination	committee required.						

11-BXP8-112-m01	Curren	t Topics	in Physic	S							
	ECTS	8	Duration	1	1 semester	Method of gradin	g numerical	grade	Modul level	undergraduate	
	Course	S		V + R	(no information o	n SWS (weekly conta	ct hours) and	course language av	ailable)		
	Method	d of ass	essment	prox.	30 minutes per ca eminar presentatio		t report (approes)			r oral examination in groups (ap: 1 to 4 weeks) or d) presentati-	
	other p	rerequi	sites	Appro	val by examination	n committee require	d.				
Energy and Materia											
11-ENT-092-m01	Principles of Energy Te				gies						
	ECTS	6	Duration	1	1 semester	Method of gradin	g numerical	grade	Modul level	graduate	
	Course	:S	,	R + V	no information o	n SWS (weekly conta	ct hours) and	course language av	ailable)	•	
	Method of assessment		essment	prox. to 10 Asses noun 2009	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English						
	other p	rerequi		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. I Idents have obtaine Ir registration for ass	Registration fo I the qualifica essment into	r the course will be tion for admission t effect. Students who	considered a de to assessment c o meet all prere	nform students about the respec- eclaration of will to seek admissi- over the course of the semester, equisites will be admitted to as- ents will have to obtain the quali-	
11-NTE-092-m01	Nanote	chnolo	gy in Ener	gy Res	search						
	ECTS	4	Duration	1	1 semester	Method of gradin	g numerical	grade	Modul level	graduate	
	Course	:S		V + R	(no information o	n SWS (weekly conta	ct hours) and	course language av	ailable)		
	Method of asse			prox. to 10 Asses	30 minutes per ca pages, time to cor ssment offered: W ced in due form ur	ndidate, for module nplete: 1 to 4 weeks hen and how often a	s with less tha or d) present ssessment wil	nn 4 ECTS credits ap ation/seminar prese ll be offered depend	prox. 20 minute entation (appro Is on the metho	oral examination in groups (apes) or c) project report (approx. 8 x. 30 minutes) d of assessment and will be anand examination regulations)	
	other prerequisites			tive d on to the le sessn	etails at the begin assessment. If stu cturer will put the nent in the current	ning of the course. I Idents have obtaine Ir registration for ass	Registration fo I the qualifica essment into	r the course will be tion for admission t effect. Students who	considered a de to assessment c o meet all prere	nform students about the respec- eclaration of will to seek admissi- over the course of the semester, equisites will be admitted to as- ents will have to obtain the quali-	

11-TDO-092-m01	Thermodynamics and Economics											
	ECTS	6	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	·S		R + V	R + V (no information on SWS (weekly contact hours) and course language available)							
	Method	d of ass	essment	prox. to 10 p Asses nound 2009.	Language of assessment: German, English							
	·	orerequi		on to the le- sessm fication	etails at the begin assessment. If stu cturer will put the nent in the current on for admission t	ning of the course. Residents have obtained to registration for assess	gistration for the course will be on the qualification for admission the sament into effect. Students who	considered a de to assessment o o meet all prere				
11-TMS-102-m01	Introdu	uction to	Function	al Materials								
	ECTS	5	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		V + Ü	V + Ü (no information on SWS (weekly contact hours) and course language available)							
	Method of assessment			written examination (approx. 120 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.								
				Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.								

11-BVG-092-m01	Coating Techr	nologies based	on Vapour Depositio	n		,				
	ECTS 5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	V + R	R (no information on :	SWS (weekly contact	hours) and course language ava	ailable)				
	Method of ass	prox to 10 Asse nour	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009.							
	other prerequisites		Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the r tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek acon to assessment. If students have obtained the qualification for admission to assessment over the course of the seme the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the fication for admission to assessment anew.							
11-ZMB-112-m01	Methods for n	on-destructive	tive Characterization of Materials and Components							
	ECTS 4	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	V + R	R (no information on S	SWS (weekly contact	hours) and course language ava	ailable)				
	Method of ass	prox mina Asse	30 minutes per can ar presentation (appr essment offered: Whe nced in due form und	didate) or c) project roox. 30 minutes) en and how often asse	eport (approx. 10 pages, time to	s on the metho	oral examination in groups (ap- 4 weeks) or d) presentation/se- d of assessment and will be an- and examination regulations)			
	other prerequ	tive on to the l sess	details at the beginn o assessment. If stud ecturer will put their	ing of the course. Reg ents have obtained the registration for asses r in the subsequent s	ristration for the course will be on the qualification for admission to sment into effect. Students who	considered a de o assessment o o meet all prere	form students about the respec- claration of will to seek admissi- ver the course of the semester, quisites will be admitted to as- nts will have to obtain the quali-			

11-ZDR-111-mo1	Principl	les of tw	vo- and th	reedir	nensional Röntge	n imaging							
	ECTS	6	Duration	า	1 semester	Method of grad	ing numerical g	grade	Modul level	graduate			
	Courses	5		V + R	(no information or	SWS (weekly con	tact hours) and c	ourse language av	ailable)				
	Method	of asse	essment	prox. to 10 Asses	30 minutes per ca pages, time to con sment offered: Wh ted in due form un	ndidate, for modul nplete: 1 to 4 week nen and how often	es with less than s) or d) presenta assessment will	n 4 ECTS credits ap tion/seminar prese be offered depend	prox. 20 minute entation (approx s on the metho	oral examination in groups (aps) or c) project report (approx. 8 c. 30 minutes) d of assessment and will be anand examination regulations)			
	other pi	rerequis		tive do on to the le sessm	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respecive 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, he lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualication for admission to assessment anew.								
11-ASL-092-m01	Applied	Supero	onductio	n									
	ECTS	6	Duration	1	1 semester	Method of grad	ing numerical g	grade	Modul level	graduate			
	Courses	5		R + V	(no information or	SWS (weekly con	tact hours) and c	ourse language av	ailable)	*			
	Method	of asse	essment	prox. pages Asses	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: once a year, winter semester Language of assessment: German, English								
	other pi	·		tive do on to the le sessm fication	etails at the begin assessment. If stu cturer will put thei nent in the current on for admission to	ning of the course. dents have obtain r registration for as	Registration for ed the qualificat seessment into eart semester. Fo	the course will be done for admission to the street. Students who	considered a de o assessment o o meet all prere	form students about the respec- claration of will to seek admissi- ver the course of the semester, quisites will be admitted to as- nts will have to obtain the quali-			
08-EEW-122-m01		chemica	l Energy	Storag	e and Conversion								
	ECTS	5	Duration		1 semester		ing numerical g	•	Modul level	graduate			
	Courses	5						nd course language					
	Method of assessment			placement report / fieldwork report / report on practical training / report on practical course / project report / report on to nical course (approx. 5 pages) and a) written examination (approx. 90 minutes) or b) oral examination of one candidate e (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes). Should a module component conse more than one graded assessment, all assessments will be equally weighted, unless otherwise specified; should the later want to make changes to the way in which assessments are weighted, he or she must do so by two weeks after the of the course at the latest and must communicate this to students in an appropriate manner.						mination of one candidate each uld a module component compri- rwise specified; should the lec- o so by two weeks after the start			
	other p	rerequis	sites	Admis	sion prerequisite	to assessment: re	gular attendance	of lab course (a m	aximum of one	incident of unexcused absence).			

08-CT-122-m01	Molecular Materials (Le	cture and practical course)							
	ECTS 10 Duration	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. • 08-CT-1-122: V + Ü (no information on SWS (weekly contact hours) and course language available) • 08-CT-2-122: P (no information on SWS (weekly contact hours) and course language available)							
	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 o8-CT-1-122: Molecular Materials (Lecture) Molecular Materials (Lecture) • 5 ECTS, Method of grading: numerical grade • presentation (approx. 30 minutes) and 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). Should a module component comprise more than one graded assessment, all assessments will be equally weighted, unless otherwise specified; should the lecturer want to make changes to the way in which assessments are weighted, he or she must do so by two weeks after the start of the course at the latest and must communicate this to students in an appropriate manner. • Language of assessment: German or English • Other prerequisites: 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). Assessment in module component o8-CT-2-122: Molecular Materials (Practical course) • 5 ECTS, Method of grading: (not) successfully completed • Vortestate (pre-experiment exams, approx. 15 minutes each) and logs (approx. 5 pages each) • Assessment offered: once a year, winter semester • Language of assessment: German or English • Other prerequisites: Admission prerequisite to assessment: regular attendance (minimum 80%) of courses.							
	other prerequisites	By way of exception, additional prerequisites are listed in the section on assessments.							
	Participants and allocation of places	Information on the allocation of places will be listed separately for each module component. • 08-CT-1-122: • 08-CT-2-122: Students from the Faculty of Chemistry: no restrictions. Nanostrukturtechnik (Nanostructure Technology): 4. Should there be more than 4 applications from students of Nanostrukturtechnik (Nanostructure Technology), places will be allocated among these applicants as follows: (1) Places will be allocated by lot. (2) 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. In this procedure, applicants who already have successfully completed at least one other module component of the respective module will be given preferential consideration. (3) A waiting list will be maintained and places re-allocated as they become available.							

08-CTO-122-m01	Molecu	lar Mat	erials for	Stude	nts of Nanostructui	re Technology						
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	5		V + Ü	(no information on	SWS (weekly contact	hours) and course langua	age available)				
	Method	l of ass	essment	amin cand comp fied; week	resentation (approx. 30 minutes) and 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 andidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes). Should a module component comprise more than one graded assessment, all assessments will be equally weighted, unless otherwise specied; should the lecturer want to make changes to the way in which assessments are weighted, he or she must do so by two eeks after the start of the course at the latest and must communicate this to students in an appropriate manner. In an appropriate manner and appropriate manner.							
	other prerequisites			ning	Admission prerequisite to assessment: successful completion of exercises in the respective classes as specified at the begining of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually maximum of 2 incidents of unexcused absence).							
08-NT-122-m01	Chemic	ally and	d bio-insp	ired N	lanotechnology for	Material Synthesis						
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5		•	08-NT-1-122: V (no	information on SWS	s. Information on courses (weekly contact hours) a (weekly contact hours) a	nd course language av				
				Asse:	ssment in module c 2 ECTS, Method o a) written examina oral examination is ssment in module c 3 ECTS, Method or a) written examina	omponent o8-NT-1-12 f grading: numerical gation (approx. 45 minin groups (groups of 2 omponent o8-NT-2-12 f grading: numerical gation (approx. 45 miningroups (approx. 45 miningroy. 45 miningroy.	e module will require suct 2: Sol-Gel Chemistry 1: For trade utes) or b) oral examinati , approx. 30 minutes) 22: From Biomineralisation trade	cessful completion of undamentals on of one candidate e on to biologically inspi	s as specified below. Unless all individual assessments. each (approx. 20 minutes) or c) red Materials Synthesis each (approx. 20 minutes) or c)			
08-PCM3-102-m01												
		5	Duration		1 semester	Method of grading		Modul level	graduate			
	Courses Method			S + Ü (no information on SWS (weekly contact hours) and course language available) written examination (90 minutes) or oral examination of one candidate each (20 minutes) or talk (30 minutes) Language of assessment: German or English								
08-FS1-122-m01	Materia	l Scien	ce 1 (basi	c intro	duction)			,				
ļ	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5		V + Ü	(no information on	SWS (weekly contact	hours) and course langua	age available)				
	Method	l of ass	essment	each; c) ora	; 3 written examinat al examination in gr		utes each) or b) oral exam		tions: approx. 60 or 90 minutes late each (approx. 20 minutes) or			

08-FS2-122-m01	Material S	cience 2 (the	material groups)	,							
	ECTS 5	Duratio	n 1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	·	V + Ü (no information o	V + Ü (no information on SWS (weekly contact hours) and course language available)							
	Method of	assessment	each; 3 written examin	nations: approx. 60 min groups (groups of 2, ap	utes each) or b) oral exa		tions: approx. 60 or 90 minutes date each (approx. 20 minutes) or				
08-FS5-101-m01	Chemical I	Nanotechnolo	chnology: Analytics and Applications								
	ECTS 5	Duratio	n 1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	,	• 08-FS5-1-101: V	(no information on SWS	s. Information on course (weekly contact hours) (weekly contact hours)) and course language a					
	Method of	assessment					ts as specified below. Unless all individual assessments.				
			 2 ECTS, Method a) oral examinate Assessment in module 3 ECTS, Method 	of grading: numerical gation (approx. 15 minutese component o8-FS5-2-3 of grading: numerical g	s) or b) written examination oriented	tion (approx. 45 minute d Characterization of co	olloidal and polymeric systems				
	Participants and allocation of places		a standardised proced of places): total number number of ECTS credits respective applicant; a (25% of places): alloca component of the resp allocated as they beco	ure among all applicaner of ECTS credits alreads achieved, places will be mong applicants with the tion by lot. In this proceeding module will be gome available.	is irrespective of their s ly achieved in the respe be allocated by lot. Quo he same number of sub edure, applicants who a iven preferential consid	ubjects according to the ective degree subject; a ta 2 (25% of places): nu pject semesters, places already have successful	aces, places will be allocated in e following quotas: Quota 1 (50% mong applicants with the same umber of subject semesters of the will be allocated by lot. Quota 3 ly completed at least one module vill be maintained and places re-				
		Information	The course is offered a	s a block course at the	end of the semester.	,					
11-BXN5-112-m01		·	structure Technology		T						
ļ	ECTS 5	Duratio		Method of grading		Modul level	undergraduate				
	Courses	The contraction of the contracti									
	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 prere	equisites	Approval by examinati	on committee required.							

11-BXN6-112-m01	Current	Topics	in Nanos	tructu	re Technology	'							
	ECTS	6	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S		V + R	no information on	SWS (weekly contac	t hours) and course language av	ailable)					
	Method	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	Approval by examination committee required.								
11-BXN8-112-m01	Current	t Topics	in Nanos	tructu	re Technology								
	ECTS	8	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S		V + R	(no information on	SWS (weekly contac	t hours) and course language av	ailable)					
	Method of assessment				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) anguage of assessment: German, English								
	other p	rerequi	sites	Appro	Approval by examination committee required.								
11-TDOE-141-mo1	Thermodynamics and Economics												
	ECTS	3	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Course			V (no information on SWS (weekly contact hours) and course language available)									
	Method	d of ass	essment	prox.	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups prox. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) present on/seminar presentation (approx. 30 minutes)								
11-BSV-122-m01	Image a	and Sig	nal Proce	ssing	n Physics								
	ECTS	6	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		V + R	(no information on	SWS (weekly contac	t hours) and course language av	ailable)					
			a) written examination (90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009.										
	other prerequisites			Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.									

11-BXP5-112-m01	Current T	Current Topics in Physics										
	ECTS 5	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			V + R	(no information or	SWS (weekly contac	t hours) and course langua	age available)	•			
	Method o	of asse	ssment		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-							
				prox.	30 minutes per ca	ndidate) or c) project	report (approx. 8 to 10 pag	ges, time to complete:	: 1 to 4 weeks) or d) presentati-			
					on/seminar presentation (approx. 30 minutes) Language of assessment: German or English							
	other pre	requie	ites		Approval by examination committee required.							
11-BXP6-112-m01	Current T											
11 5/4 0 112 11101	ECTS 6 Duration				1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses						t hours) and course langua		and engineering			
		of asse						<u> </u>	r oral examination in groups (ap-			
	Method	or asse	.SSIIICIIC									
				on/se	prox. 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)							
					anguage of assessment: German or English							
	other pre				Approval by examination committee required.							
11-BXP8-112-mo1	Current T	<u> </u>			1	1			1			
	ECTS 8	3	Duration		1 semester		numerical grade	Modul level	undergraduate			
	Courses						t hours) and course langua	<u> </u>				
	Method of assessment								r 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) presentation/seminar presentation (approx. 30 minutes)							
				Langi	lage of assessmer	it: German or English	3)					
	other pre	erequis	ites	Approval by examination committee required.								
11-BSV-131-mo1				ssing	in Physics	•						
	ECTS 6		Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			V + R	(no information or	SWS (weekly contac	t hours) and course langua		, -			
				prox.	30 minutes per ca		report (approx. 8 to 10 pag		oral examination in groups (ap: 1 to 4 weeks) or d) presentati-			
				Asses	ssment offered: Wh ced in due form un	nen and how often as	sessment will be offered d		d of assessment and will be an- and examination regulations)			
				Langi	uage of assessmer	it: German, English						
	other prerequisites			tive d on to the le	etails at the begin assessment. If stu cturer will put thei	ning of the course. Red dents have obtained	gistration for the course w the qualification for admis ssment into effect. Studer	vill be considered a de ssion to assessment o	form students about the respec- eclaration of will to seek admissi- over the course of the semester, quisites will be admitted to as-			

11-PMM-132-m01	Physics of Advanced N	laterials								
	ECTS 6 Durati									
	Courses	/ + R (no information on SWS (weekly contact hours) and course language available)								
	Method of assessmen	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (a prox. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentat 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 a nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English								
Life Science										
11-BMT-092-m01	Biophysical Measurement Technology in Medical Science									
	ECTS 6 Durati	on 1 semester Method of grading numerical grade Modul level graduate								
	Courses	R + V (no information on SWS (weekly contact hours) and course language available)								
	Method of assessment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English								
	other prerequisites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.								

11-LMB-092-m01	Labora	tory and	Measure	ement 7	Technology in Bio	physics					
	ECTS	6	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		R + V ((no information or	n SWS (weekly contact hours) and course langu	uage available)				
	Method	d of ass	essment	prox. 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	rerequi	sites	on to a the leasessm	etails at the begin assessment. If stu cturer will put thei nent in the current	nust be met to qualify for admission to assessmenting of the course. Registration for the course wadents have obtained the qualification for admiric registration for assessment into effect. Student or in the subsequent semester. For assessment o assessment anew.	will be considered a c ission to assessment ents who meet all prer	declaration of will to seek admissi- over the course of the semester, requisites will be admitted to as-			
03-NS-FBM-102-	Functional Biomaterials for Students of Nanostructure Technology and Science										
mo1	ECTS 5 Duratio			1	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	d of ass	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.							
				Asses Bioma	ce 3 ECTS, Method of written examinat groups (approx. 3 sment in module of aterials 2 ECTS, Method of placement report	component o3-NS-FBM-1-102: Functional Biomator of grading: numerical grade tion (approx. 90 to 120 minutes) or oral examing minutes) component o3-NS-FBM-2-102: Special Topics in of grading: (not) successfully completed t / fieldwork report / report on practical training rse (approx. 10 to 20 pages)	nation of one candid In Functional Biomate	ate each or oral examination in rials Special Topics in Functional			

07-4BFM-	Biotechnology 1 for Nan	ostructure Technology									
Z5N-102-m01	ECTS 5 Duration	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. or-4BFMZ5N-1-102: P (no information on SWS (weekly contact hours) and course language available) or-4BFMZ5N-2-102: S (no information on SWS (weekly contact hours) and course language available)									
	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 o7-4BFMZ5N-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 prerequisites	By way of exception, additional prerequisites are listed in the section on assessments.									
	Participants and allocation of 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.									
07-4BF-	Membrane Biology for advanced students for Nanostructure Technology										
PS2N-102-m01	ECTS 5 Duration	1 semester Method of grading numerical grade Modul level undergraduate									
	Courses	V + Ü (no information on SWS (weekly contact hours) and course language available)									
	Method of assessment	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 prerequisites	Admission prerequisite to assessment: regular attendance of exercises as well as successful completion of the respective exercises.									
	Participants and allocation of 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.									

07-4S1M-	Methods in Biotechnolo	ogy for Nanostructure Technology									
Z4N-102-m01	ECTS 5 Duration	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. o7-4S1MZ4N-1-102: V (no information on SWS (weekly contact hours) and course language available) o7-4S1MZ4N-2-102: S (no information on SWS (weekly contact hours) and course language available)									
	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)									
		 Assessment in module component o7-4S1MZ4N-2-102: Seminar Methods in 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 									
	Participants and allocation of 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.									
07-4S1M-	Molecular Biotechnology for Nanostructure 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. o7-4S1MZ5N-1-102: V (no information on SWS (weekly contact hours) and course language available) o7-4S1MZ5N-2-102: S (no information on SWS (weekly contact hours) and course language available)									
	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 o7-4S1MZ5N-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 o7-4S1MZ5N-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 									
	Participants and allocation of 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.									

07-BTNST-102-m01	Basics in	1 Biotec	hnology								
	ECTS 2	2	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V +	S (no information on S							
	Method o	of asses	ssment wri	written examination (approx. 30 minutes)							
	other pre	erequisi	sisistu ans terribe b) a on res stic am of 7 tisf	entirely or partly of madents will have to be indents will have to be indents will have to be indents with an accordance with mine which answers are considered successful a minimum of 50% of quantidate is no more to pective examination for successination consisting of mation consisting of mation, the grade gut (good actory) if they have concorrectly answered less mination, the number of questions asket	ultiple choice question formed about this in the Section 16 Subsection 17 Subsection 17 Subsection 18 Subsection 1	ons. If the selected method of a due time. A minimum of two extion 1 ASPO (general academic orrect. The part of the examinational of a minimum of 60% of the red correctly and the number of the average number of question in a candidates that have cone examination as specified in some, the grade sehr gut (excellectly answered a minimum of 50 inimum of 25% but less than 50 t of the questions that was required for the service of the service of the questions that was required for the service of the se	ssessment inclustaminers will contained and examination consisting of equestions asked and examination consisting of examinations answered correctly answered correctly answered sentence 5 will be ent) if they have 8% but less than 1%, the grade austudents are into or successful correctly by the results and the students are into or successful correctly by the results and examinations are successful correctly by the results and examinations are into the successful correctly by the results are into the successful correctly and the successful correctly are successful to the successful correctly and the successful correctly are successful to the succe	written examinations can con- udes multiple choice questions, ompile the set of questions and on regulations). They will also de- of multiple choice questions will ed was answered correctly or if wered correctly by the examinati- rectly by students that took the ed the minimum number of que- be awarded, in the part of the ex- correctly answered a minimum of 75%, the grade befriedigend (sa- cusreichend (sufficient) if they ha- formed about the results of the completion of the examination, the reference group mentioned under the manner.			

07-4S1M-	Special Bioinformatics 1											
Z6-102-m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		V + Ü (V + Ü (no information on SWS (weekly contact hours) and course language available)								
	Method of as	sessment		pprox. 10 to 20 pagage of assessmen	ges) t: German or English							
	other prerequ	uisites			to assessment: regula nning of the course.	r attendance of exercises	and successful comp	pletion of the respective exercises				
	Participants a cation of place		follow dits. S Bache will be Bache of the ber of from tire will ponen cessfu waitin primal ked ac studie thema ding to the lated a the sa (5%): achiev achiev among cation	s: Places will prime should the module blor's degree subject allocated to study application-orient places available in he other quota. She a uniform regulate that are concernully completed at least of a list will be maining list will be maining list will be maining to the number of all module at it (Mathematics) to their average grading to the sum of these ame ranking, place places will be allowed, places will be applicants with the places will be gapplicants with the places.	arily be allocated to stable be used in other subject Biologie (Biology) wents of the Bachelor's ects Computational Mated subject Biology (as none quota exceed thould there be, within elation for the courses ed will be allocated in east one other module tained and places re-according to the application of ECTS credits the components in the subject of the time of application of the time of according to the subject of the odule components of the allocated by lot. Quot the same number of subject is the same number of subject is allocated by lot. Quot the same number of subject is the subject in the the	udents of the Bachelor's ects, there will be two quith 180 ECTS credits and degree subject Biologie (thematics and Mathemat well as potentially to stue number of applications one module component, of one module componer a standardised procedur component of the respectionated as they become ants' previous academic aney have achieved and the bject of Biologie (Biology, ition. This will be done as to the number of ECTS of (quantitative ranking). Thaces will be allocated according to the qualitative following quotas: Quota he Faculty of Biology; ama 2 (25% of places): num bject semesters, places win the Bachelor's degree	degree subject Biologiotas: 95% of places (a minir (Biology) with 60 ECTS tik (Mathematics), early dents of other 'imports, the remaining place several courses with the several courses will be gavailable. Selection pachievements. For this seir average grade of a course of several courses (a course of several course) (excluding Chemie (as follows: First, applicated the several course of several courses (a course of several course) to the several course of several course	aces, places will be allocated as gie (Biology) with 180 ECTS crevill be allocated to students of the mum of one participant in total) S credits and to students of the ch with 180 ECTS credits, as part ring' subjects). Should the numes will be allocated to applicants a restricted number of places, these on all courses of a module comapplicants who already have succiven preferential consideration. A process group 1 (95%): Places will be purpose, applicants will be randal assessments taken during their (Chemistry), Physik (Physics), Maants will be ranked, firstly, accornking) and, secondly, according in a third ranking will be calcuanking. 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; bt. Quota 3 (25% of places): allology) with 180 ECTS credits, pla-				

07-4S1M-	Basics in Light- and Electron-Microscopy												
Z1-102-m01	ECTS 5	Duratio	n 1 semester	Method of grading	numerical grade	Modul level	undergraduate						
	Courses		V + Ü (no information on SWS (weekly contact hours) and course language available)										
	Method of	assessment	written examination (a)	pprox. 30 to 60 minutes	5)								
	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 pl		Number of places: 18. S follows: Places will prir dits. Should the modul Bachelor's degree subj will be allocated to stu- Bachelor's degree subj of the application-orier ber of places available from the other quota. S re will be a uniform reg ponent that are concer- cessfully completed at waiting list will be main primarily be allocated at ked according to the no- studies or of all module thematik (Mathematics ding to their average gr to their total number of lated as the sum of the the same ranking, plac (5%): Places will be allo achieved, places will b among applicants with	Should the number of a marily be allocated to so e be used in other subject Biologie (Biology) we dents of the Bachelor's ects Computational Manted subject Biology (as in one quota exceed the chould there be, within ulation for the courses ned will be allocated in least one other module trained and places reaccording to the applicated exception of ECTS credits the components in the subject which we weighted according to the same number of subject to the subject to th	tudents of the Bachelor's degree ects, there will be two quotas: goth 180 ECTS credits and 5% of degree subject Biologie (Biologithematics and Mathematik (Mass well as potentially to students e number of applications, the roone module component, severa of one module component. In the a standardised procedure. In the component of the respective millocated as they become available ants' previous academic achieved have achieved and their average to the number of ECTS credits (quantitative ranking). The applaces will be allocated according to the qualitative ranking following quotas: Quota 1 (50% the Faculty of Biology; among and 2 (25% of places): number of subject semesters, places will be in the Bachelor's degree subject in the Bachelor's degree subjects.	e subject Biology of places we places (a mining) with 60 ECTS thematics), each of other 'importermaining place I courses with a place of the will be gole. Selection procedure, and the will be gole. Selection procedure will be gole. Selection procedure (a places of a places of the west first, application of the will be gold o	vill be allocated to students of the num of one participant in total) is credits and to students of the ch with 180 ECTS credits, as part ting' subjects). Should the nums will be allocated to applicants a restricted number of places, these on all courses of a module complicants who already have suctiven preferential consideration. A process group 1 (95%): Places will be purpose, applicants will be ranall assessments taken during their Chemistry), Physik (Physics), Maants will be ranked, firstly, according and, secondly, according in a third ranking will be calcu-						

07-5S2M-	Spec	ific Biotec	hnology	2								
Z4-102-m01	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Cours	ses	_	Ü + S	Ü + S (no information on SWS (weekly contact hours) and course language available)							
	Meth	od of asso	essment	methods of assessment: a) written examination (approx. 45 to 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. 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								
		prerequi			ssion prerequisite to ctive exercises as sp			eminar as well a	as successful completion of the			
		cipants ar n of place		follow dits. So Bache will be Bache of the ber of from to the rewill poner cessful waiting prima ked a studie them adding to the lated the sa (5%): achieva chieva mon cation	s: Places will primare should the module belor's degree subject e allocated to studer elor's degree subject application-oriented places available in the other quota. Should be a uniform regulant that are concerned ully completed at leading list will be maintainly be allocated according to the numbers or of all module coatik (Mathematics)) are otheir average graduit total number of EC as the sum of these ame ranking, places will be allocated in modules/modules, places will be a gapplicants with the places of the sum of these are applicants with the places will be a gapplicants with the places. Should the places will be a gapplicants with the places.	rily be allocated to ste used in other subject Biology) whats of the Bachelor's some quota exceed the uld there be, withing tion for the courses of will be allocated in stone other module and places readording to the application for the application of the time of the time of application of the time of the time of application of the time of application of the time of the ti	didents of the Bachelor's degree ects, there will be two quotas: goth 180 ECTS credits and 5% of degree subject Biologie (Biologic thematics and Mathematik (Mathematics and Mathematik) well as potentially to students e number of applications, the roone module component, several of one module component. In the component of the respective millocated as they become available to the previous academic achieved by the previous academic achieved by the previous academic achieved by the previous academic achieved to the number of ECTS credits (quantitative ranking). The applaces will be allocated according ording to the qualitative ranking following quotas: Quota 1 (50% the Faculty of Biology; among allocated semesters, places will be object semesters, places will be	e subject Biology 5% of places we places (a minimal by) with 60 ECTS thematics), each of other 'importer and in graph of the subject semest of the places of the position of the position of the position of the position of the places of the places of the places of places of places of the places of	ill be allocated to students of the num of one participant in total) credits and to students of the h with 180 ECTS credits, as parting's subjects). Should the nums will be allocated to applicants a restricted number of places, theon all courses of a module compplicants who already have sucton preferential consideration. A process group 1 (95%): Places will purpose, applicants will be randl assessments taken during their chemistry), Physik (Physics), Mants will be ranked, firstly, accorking) and, secondly, according in a third ranking will be calcunking. Among applicants with y lot. Selection process group 2 all number of ECTS credits already the same number of ECTS credits			

08-BC-092-m01	Biochen	nistry						1				
	ECTS	6	Duration)	2 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			V + Ü	+ V + Ü (no informa	tion on SWS (weekly	contact hours) and course	language available)				
	Method	of asse	ssment	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			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).								
08-BC-LAGY-092-	Biochen	nistry (t	eaching	degree	for secondary sch	ools)		,				
mo1	ECTS	3	Duration)	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			V + Ü	(no information on	SWS (weekly contact	hours) and course languag	ge available)				
	Method	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 pr	•		ning o	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).							
	Referred	l to in LI	PO I	§ 62 (1) 2. Chemie "Orgar	nische und Bioorgani	sche Chemie"					
11-BXN5-112-m01	Current	Topics	in Nanos	structure Technology								
	ECTS	5	Duration)	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			V + R	(no information on	SWS (weekly contact	hours) and course languag	e available)				
	Method	of asse	ssment	prox. on/se	30 minutes per can	didate) or c) project r (approx. 30 minutes	eport (approx. 8 to 10 page		or oral examination in groups (ap: 1 to 4 weeks) or d) presentati-			
	other pr	erequis	ites	Appro	val by examination	committee required.						
11-BXN6-112-m01	Current	Topics	in Nanos	tructu	re Technology			,				
	ECTS	6	Duration)	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			V + R	(no information on	SWS (weekly contact	hours) and course languag	e 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	erequis	ites	Appro	val by examination	committee required.						

11-BXN8-112-m01	Current	Topics	in Nanos	tructu	re Technology							
	ECTS	8	Duration	n	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	d of asse	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	rerequis	sites	Appro	val by examination	n committee required.						
11-BXP5-112-m01	Current	Topics	in Physic	:s	'		,					
	ECTS	5	Duration	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 a	vailable)	•				
	Method	d of asse	essment	prox. on/se	written examination (approx. 120 minutes) or b) oral examination of one candidate each or oral examination in groups (appox. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentati-/seminar presentation (approx. 30 minutes) nguage of assessment: German or English							
	other p	rerequis	sites	Appro	val by examination	n committee required.						
11-BXP6-112-m01	Current	Topics	in Physic	:s								
	ECTS	6	Duration	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 as	vailable)					
	Method	d of asse	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 or English							
	other p	rerequis	sites	Appro	val by examination	n committee required.						
11-BXP8-112-m01	Curren	Topics	in Physic	:s								
	ECTS	8	Duration	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 av	vailable)	•				
	Method	d of asse	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 or English							
	other p	rerequis	sites	Appro	val by examination	n committee required.						

Experimental Phys	ics											
11-PKS-092-m01	Physics	s of Con	ıplex Sys	tems								
	ECTS	6	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		R + V (R + V (no information on SWS (weekly contact hours) and course language available)							
	Method	d of asso	essment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English								
	other p	rerequi		tive de on to a the lee sessm	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.							
11-MSS-102-m01	Methods in Surface Spectroscopy											
	ECTS	4	Duration		1 semester	Method of grading		Modul level	graduate			
	Course				V (no information on SWS (weekly contact hours) and course language available)							
	Method	d of asso	essment	prox. to 10 p Asses nound 2009.	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English							
	other p	rerequi	sites	on to a the leasessm	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.							

11-FKS-092-m01	Solid State Spectroscopy											
	ECTS	6	Duration	1	1 semester	Method of gra	ding numerical §	grade	Modul level	graduate		
	Course	s		R + V	(no information or	n SWS (weekly co	ntact hours) and o	course language av	ailable)			
	Method	d of asse		a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English								
	other p	rerequis		Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.								
11-HLP-092-m01	Semiconductor Physics											
	ECTS	6	Duration	1	1 semester	Method of gra	ding numerical §	grade	Modul level	graduate		
	Course	S		R + V	(no information or	n SWS (weekly co	ntact hours) and o	course language av	ailable)			
	Method	d of asse		prox. to 10 Asses nound 2009.	30 minutes per ca pages, time to cor ssment offered: Wl ced in due form ur	ndidate, for mod nplete: 1 to 4 wee nen and how ofte ider observance o	ules with less than ks) or d) presentant assessment will of Section 32 Subs	n 4 ECTS credits ap ation/seminar prese l be offered depend	prox. 20 minute entation (approx Is on the metho	oral examination in groups (apes) or c) project report (approx. 8 x. 30 minutes) d of assessment and will be anand examination regulations)		
	other p	rerequis		Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.								

11-MAG-092-m01	Magne	tism									
	ECTS	6	Duration	า	1 semester	Method of grading	numerical grade		Modul level	graduate	
	Course	S		R + V	(no information or	SWS (weekly contac	t hours) and course	e language av	ailable)		
	Method	d of asso	essment	prox. to 10 Asses nound 2009	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English						
	·	rerequi		tive d on to the le sessn fication	ertain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, ne lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualication for admission to assessment anew.						
11-BXN5-112-m01					re Technology	_					
	ECTS	5	Duration		1 semester	,	numerical grade		Modul level	undergraduate	
	Course					n SWS (weekly contac			-		
	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 p	rerequi	sites	Appro	Approval by examination committee required.						
11-BXN6-112-m01	Current	t Topics	in Nanos	tructu	ructure Technology						
	ECTS	6	Duration	า	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			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	n committee required					
11-BXN8-112-m01	Current	t Topics	in Nanos	tructu	re Technology						
	ECTS	8	Duration	า	1 semester	Method of grading	numerical grade		Modul level	undergraduate	
	Course	S		V + R	(no information or	SWS (weekly contac	t hours) and course	e language av	ailable)		
	Method of assessment			prox. on/se Langu	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	n committee required					

11-BXP5-112-m01	Current T	opics	in Physic	S		,		'							
	ECTS 5	;	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate						
	Courses			V + R	(no information or	n SWS (weekly contac	t hours) and course language	e available)							
	Method o	of asse	essment						r oral examination in groups (ap-						
				prox.	prox. 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)										
				On/se	eminar presentatio	on (approx. 30 minute	(5)								
	other pre	roquic	itos		Language of assessment: German or English Approval by examination committee required.										
11-BXP6-112-mo1	Current T				,										
II BAI O IIZ IIIOI	ECTS 6		Duration		1 semester	Method of grading	g numerical grade	Modul level	undergraduate						
	Courses						t hours) and course language		undergraduate						
		of asse							r oral examination in groups (ap-						
	Method	J1 4550	Joinent						: 1 to 4 weeks) or d) presentati-						
						on (approx. 30 minute		•							
						nt: German or English									
	other pre				pproval by examination committee required.										
11-BXP8-112-mo1	Current Topics in Physics														
	ECTS 8	3	Duration		1 semester		numerical grade	Modul level	undergraduate						
	Courses						t hours) and course language								
	Method o	of asse	essment	a) written examination (approx. 120 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 3 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation											
				prox. 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 or English											
	other pre	requis	ites		Approval by examination committee required.										
Theoretical Physic	'	'													
11-TM-092-m01	Theoretic	cal Me	chanics												
	ECTS 8		Duration	1	1 semester	Method of grading	g numerical grade	Modul level	undergraduate						
	Courses			V + Ü	(no information o	n SWS (weekly contact	ct hours) and course language	e available)							
	Method o	of asse	essment	written examination (approx. 120 minutes, for modules with less than 4 ECTS credits approx. 90 minutes; unless otherwise											
				specified)											
									d of assessment and will be an-						
				10un 2009		ider observance of Se	ection 32 Subsection 3 ASPO	(general academic	and examination regulations)						
	other pre	requis	ites			ust he met to qualify	for admission to assessment	The lecturer will in	nform students about the respec-						
	other pre	requis	nics	tive d	etails at the begin	ning of the course. Re	egistration for the course will	be considered a de	eclaration of will to seek admissi-						
				on to	tive 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 as-										
					sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.										
				neath		- assessment anew.									

11-ED-092-m01	Theore	etical Ele	ectrodyna	mics	"	,								
	ECTS	8	Duratio	า	1 semester	Method of grading	numerical grade	Modul leve	el undergraduate					
	Course	es		V + Ü	(no information o	on SWS (weekly contac	t hours) and course la	nguage available)						
	Metho	d of ass	essment		written examination (approx. 120 minutes, for modules with less than 4 ECTS credits approx. 90 minutes; unless otherwise specified)									
				Asses	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	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 respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.									
11-QM2-092-m01	Quantum Mechanics II													
	ECTS	8	Duration	1	1 semester	Method of grading	numerical grade	Modul leve	el undergraduate					
	Course	es		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	orerequi	sites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.										
11-BXN5-112-m01	Curren	t Topics	in Nanos	tructu	re Technology									
	ECTS	5	Duratio	า	1 semester	Method of grading	numerical grade	Modul leve	el undergraduate					
	Course	es		V + R (no information on SWS (weekly contact hours) and course language available)										
	Method of assessment			prox.	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 examinati	on committee required								

11-BXN6-112-m01	Current	Topics	in Nanos	tructu	re Technology									
	ECTS	6	Duration	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	d of asse	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	rerequis	sites	Appro	val by examination	committee required.								
11-BXN8-112-m01	Current Topics in Nanostructure Technology													
	ECTS	8	Duration	ı	1 semester	Method of grading numerical grade	Modul level	undergraduate						
	Course	S		V + R	(no information on	SWS (weekly contact hours) and course language av	ailable)							
	Method	d of asse	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	rerequis	sites	Appro	val by examination	committee required.								
11-BXP5-112-m01	Current	Topics	in Physic	:S										
	ECTS	5	Duration	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	d of asse	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 or English										
	other p	rerequis	sites	Approval by examination committee required.										
11-BXP6-112-m01	Current	Topics	in Physic	S										
	ECTS	6	Duration	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 av	ailable)							
	Method	d of asse	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 or English									
	other p	rerequis	sites	Appro	oval by examination	committee required.								

11-BXP8-112-m01	Current	t Topics	s in Physic			1			,					
	ECTS	8	Duration	า	1 semester	Method of gradi	ng numerical grade		Modul level	undergraduate				
	Course	S		V + R	(no information on	SWS (weekly conta	act hours) and course la	anguage ava	ailable)					
	Method	d of ass	essment	prox. on/se	30 minutes per ca eminar presentatio		ct report (approx. 8 to 1 tes)			or oral examination in groups (ap: 1 to 4 weeks) or d) presentati-				
	other p	rerequi	isites	Appro	Approval by examination committee required.									
Technical Lab Cour	se and C	omput	er-aided N	Nethod	ls									
11-A2-092-m01	Electro	nics												
	ECTS	6	Duration	า	1 semester	Method of gradi	ng numerical grade		Modul level	undergraduate				
	Course	S		V + Ü	(no information or	SWS (weekly cont	act hours) and course l	anguage ava	ailable)					
				Asses noun 2009	written examination (approx. 90 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	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			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		1 semester		ng (not) successfully (Modul level	undergraduate				
	Course	S		P (no	information on SW	/S (weekly contact h	nours) and course lang	uage availal	ole)	_				
	Method	d of ass	essment	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 prerequisites			Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.										

11-A1-092-m01	Compu	Computational Physics													
	ECTS	6	Duration	ı	1 semester	Method of gradi	ng numerical grade	Modul level	undergraduate						
	Course	:S		V + Ü	(no information o	n SWS (weekly cont	act hours) and course langu	ıage available)							
	Method	d of ass	essment			oprox. 120 minutes)									
									hod of assessment and will be an-						
				2009	nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009.										
	other p	orerequi	sites	tive on to the le sessi	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.										
		oants ar		Only	ly as part of pool of general key skills (ASQ): 15 places. Places will be allocated by lot.										
11-A3-072-m01	Labora	Laboratory and Measurement Technology													
	ECTS	6	Duration	า	1 semester	Method of gradi	ng numerical grade	Modul level	undergraduate						
	Course	:S		V + Ü	+ Ü (no information on SWS (weekly contact hours) and course language available)										
	Method	d of ass	essment	writte	en examination (a	oprox. 120 minutes)									
	other prerequisites			to que cours obtain for as	Admission prerequisite to assessment: successful completion of approx. 50% of exercises. Certain prerequisites must be me to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their 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 are ew.										
		oants ar		Only as part of pool of general key skills (ASQ): 15 places. Places will be allocated by lot.											
10-M-NUW-122-	Numer	ical Mat	thematics	1 for	ı for Economathematics										
mo1	ECTS	10	Duration	ı	1 semester	Method of gradi	ng numerical grade	Modul level	undergraduate						
	Course	:S	•	V + Ü	(no information o	n SWS (weekly cont	act hours) and course langu	ıage available)							
	Method	d of ass	essment	if and	written examination (approx. 90 to 180 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			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.											

10-M-PRG-122-m01	Progra	mming	course fo	rstude	ents of Mathematic	cs and other subjects								
	ECTS	3	Duration	า	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate					
	Course	S		P (no	information on SV	VS (weekly contact hou	rs) and course language availa	ble)						
	Method	d of asso	essment	the co	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	rerequi	sites	tive d on to the le sessr	etails at the begin assessment. If stu cturer will put thei nent in the current	ning of the course. Reg udents have obtained t ir registration for asses	istration for the course will be ne qualification for admission t sment into effect. Students wh	considered a de to assessment o o meet all prere	nform students about the respec- eclaration of will to seek admissi- over the course of the semester, equisites will be admitted to as- ents will have to obtain the quali-					
10-I-EIN-111-m01	Introdu	ction to	Compute	er Scie	r Science for Students of all Faculties									
	ECTS	10	Duration	1	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)										
	Method of assessment			a) written examination (80 to 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or oral examination in groups of 2 or 3 candidates (30 or 40 minutes respectively)										
	other prerequisites			Admi cours		to assessment: acade	mic requirements to be met in o	exercises as spe	ecified at the beginning of the					
10-M-COM-122-	Computational Mathematics													
mo1	ECTS	4	Duration	า	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate					
	Course	S		V + Ü (no information on SWS (weekly contact hours) and course language available)										
	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 prerequisites			Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.										

10-M-MWR-122- mo1	Modell	ing and	Computa	tional	Science			,						
	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Course	S		V + Ü	(no information or	n SWS (weekly contac	t hours) and course language av	/ailable)						
	Method	d of ass	essment	if ann 20 mi	written examination (approx. 90 to 180 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 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.									
	other p	rerequi	sites	tive d on to the le sessn										
11-MPI4-062-m01	Mather	natics 4	for Stud	ents of	Physics and Engi	neering								
	ECTS	8	Duration	1	1 semester	Method of grading	Modul level	undergraduate						
	Course	S		V + Ü	(no information or	n SWS (weekly contac	t hours) and course language av	/ailable)						
	Method of assessment			writte	n examination (ap	prox. 120 minutes)								
11-BXN6-112-m01	Current Topics in Nanostructure Technology													
	ECTS	6	Duration	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	d of ass	essment	a) written examination (approx. 120 minutes) or b) oral examination of one candidate each or oral examination in groups (a prox. 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	Approval by examination committee required.										
11-BXN5-112-m01	Current	t Topics	in Nanos	structure Technology										
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Course	S	-	V + R	(no information or	SWS (weekly contact	t hours) and course language av	ailable)						
	Method of assessment			prox. on/se	a) written examination (approx. 120 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Language of assessment: German, English									
	other p	rerequi	sites	Appro	oval by examinatio	n committee required	•							

11-BXN8-112-m01	Current	Topics	in Nanos	tructu	re Technology										
	ECTS	8	Duration	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	l of asse	essment	prox.	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	rerequis	sites	Appro	val by examination	on committee required.									
11-BXP5-112-m01	Current Topics in Physics														
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate						
	Course	S		V + R	(no information o	n SWS (weekly contact	hours) and course language a	available)							
				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 or English											
	other p	rerequi	sites	Appro	val by examination	on committee required.									
11-BXP6-112-m01	Current Topics in Physics														
	ECTS	6	Duration	1	1 semester	undergraduate									
	Course	S		V + R (no information on SWS (weekly contact hours) and course language available)											
	Method	d of asse	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 or English											
	other p	rerequi	sites	Approval by examination committee required.											
11-BXP8-112-m01	Current	Topics	in Physic	:5											
	ECTS	8	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate						
	Course	S		V + R	no information o	n SWS (weekly contact	hours) and course language a	available)							
	Method	l of asse	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 or English										
	other p	rerequis	sites	Appro	Approval by examination committee required.										

11-SDC-131-m01	Statist	ics, Dat	a Analysi:	s and (Computer Physic	 :s			1	_				
	ECTS	4	Duration	1	1 semester	Method of grac	ling numerical grade		Modul level	graduate				
	Course	S	•	V + R	(no information	on SWS (weekly con	tact hours) and course l	anguage av	ailable)					
	Metho	d of ass	essment	prox. on/se Asses noune 2009	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English									
	otherp	orerequi	sites	Certa tive d on to the le	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semesters.									
11-SDC-092-m01	Statist	ics, Dat	a Analysis	s and (and Computer Physics									
	ECTS	4	Duration	1	1 semester	Method of grad	Modul level	graduate						
	Course	S		R + V	(no information	on SWS (weekly con	tact hours) and course l	anguage av	ailable)					
	Metho	d of ass	essment	prox. to 10 Asses nound 2009	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English									
	other prerequisites			tive d on to the le sessn	letails at the beg assessment. If s ecturer will put th ment in the curre	inning of the course students have obtain neir registration for a	. Registration for the cou ed the qualification for ssessment into effect. S ent semester. For asses:	urse will be o admission t students who	considered a de o assessment c o meet all prere	nform students about the respec- eclaration of will to seek admissi- over the course of the semester, quisites will be admitted to as- ents will have to obtain the quali-				
Thesis (20 ECTS cr The grade awarded		thesis w	vill count o	double	in the calculation	on of the overall grad	le of the Bachelor's deg	ree.						
11-BA-N-072-m01	Bachel	or Thes	is Nanost	ructur	e Technology									
	ECTS	10	Duration	1	1 semester	Method of grac	ling numerical grade		Modul level	undergraduate				
	Course	S		no courses assigned										
	Metho	d of ass	essment	writte	en thesis (approx	25 pages)								

Subject-specific Ke	ey Skills	(16 ECT	'S credits))														
11-P-MR-092-m01	Mather	matical	Methods	of Phy	sics													
	ECTS	6	Duratio	n	2 semester Method of grading (not) successfully completed Modul level undergraduate										undergraduate			
	Course	S		year (Mathe	Mathematische Rechenmethoden 1 (Mathematical Methods 1): V (2 weekly contact hours) + Ü (1 weekly contact hour), once a year (winter semester) Mathematische Rechenmethoden 2 (Mathematical Methods 2): V (2 weekly contact hours) + Ü (1 weekly contact hour), once a year (summer semester) This module has the following assessment components 1. Topics covered in lectures and exercises in part 1 (Mathematische Rechenmethoden 1 (Mathematical Methods 1)): exercises or talk (approx. 15 minutes, usually chosen) or written examination (approx. 60 minutes) 2. Topics covered in lectures and exercises in part 2 (Mathematische Rechenmethoden 2 (Mathematical Methods 2)): exercises or talk (approx. 15 minutes, usually chosen) or written examination (approx. 60 minutes) Successful completion of approx. 50% of practice work each is a prerequisite for admission to assessment components 1 and 2. Students must register for assessment components 1 and 2 online (details to be announced). To pass this module, students must pass both assessment component 1 and assessment component 2.													
	Method	d of ass	essment	1. Top or t 2. Top ses Succe 2. Stude											erci-			
	Referre	d to in	LPO I	§ 53 (1) 1. a) Physik Mechanik, Wärmelehre, Elektrizitätslehre, Optik, der speziellen Relativitätstheorie § 77 (1) 1. a) Physik "Grundlagen der Experimentalphysik"														
11-IP-092-m01	Industrial Practical Course Nanostructure Technology																	
	ECTS	10	Duratio	n	1 semester		Method	of gradi	ng nu	merical	grade			٨	Modul le	evel	undergraduate	
	Course	S		P + S	P + S (no information on SWS (weekly contact hours) and course language available)													
				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 will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009.														
	Module comple		essfully	11-EIN and 11-KP														
	other p	rerequi	sites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.														