



Annex SFB

Studienfachbeschreibung (subject description, SFB) for the subject Technology of Functional Materials as a Bachelor's with 1 major with the degree "Bachelor of Science" (180 ECTS credits)

Responsible: Faculty of Chemistry and Pharmacy Examination regulations version: 2009 Abbreviations used: Course types: $\mathbf{E} = \text{field trip}$, $\mathbf{K} = \text{colloquium}$, $\mathbf{O} = \text{conversatorium}$, $\mathbf{P} = \text{placement/lab course}$, $\mathbf{R} = \text{project}$, $\mathbf{S} = \text{seminar}$, $\mathbf{T} = \text{tutorial}$, $\mathbf{\ddot{U}} = \text{exercise}$, \mathbf{V} = lecture Term: **SS** = summer semester, **WS** = winter semester Methods of grading: NUM = numerical grade, B/NB = (not) successfully completed Regulations: (L)ASPO = general academic and examination regulations (for teaching-degree programmes), FSB = subject-specific provisions, SFB = list of modules Other: A =thesis, LV =course(s), PL =assessment(s), TN =participants, VL =prerequisite(s) Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not cre-Conventions for the modules in this SFB: ditable for bonus. Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the me-Information on assessment procedures: thod of assessment to be used in the current semester by two weeks after the start of the course at the latest and will communicate this in the customary manner. Should a module comprise more than one graded assessment, all assessments will be equally weighted, unless otherwise stated below. Should the assessment comprise several individual assessments, successful completion of the module will require successful completion of all individual assessments.

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

ASP02007

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

21-Jul-2009 (2009-42) except module 08-PKC-072 which has been replaced by 08-PKC-092

05-Oct-2009 (2009-85)

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	Dura	ation	(in semesters)	Method of grading	Module level				
	Courses		To be spe	cified in the form	X (y) with course type X	abbreviated as specified above and number of we	ekly contact hours y			
	Method of as	sessment								
	Only after su completion c		if applica	ble						
	Other prereq	uisites	if applica	fapplicable						
	Participants on of places		i- if applica	ble						
	Additional in	formation	if applica	ble						
	Referred to in	n LPO I	if applica	ble (examination	regulations for teaching	degree programmes)				

Compulsory Cours				, General and analytical laboratory course for engineering students								
08-IAC-062-m01		1							1			
	ECTS	10	Duratio		1 semester		ing numerical grad		Modul level	undergraduate		
	Course	S		•	08-IAC-1-062: V (no information on	ents. Information or SWS (weekly contac SWS (weekly contac	ct hours) and co	urse language a			
	Methoo	d of ass	sessment							ts as specified below. Unless all individual assessments.		
				Asses	 ssessment in module component o8-IAC-1-o62: Experimental Chemistry 5 ECTS, Method of grading: numerical grade written examination (approx. 90 minutes) ssessment in module component o8-IAC-2-o62: General and analytical Chemistry Lab for engineering studer 5 ECTS, Method of grading: (not) successfully completed Vortestate (pre-experiment exams, approx. 15 minutes each), assessment of practical performance, Nacht experiment exams, approx. 15 minutes each) 							
08-10C-062-m01		c Chem			ents of medicine, biomedicine, dental medicine, engineering and natural science							
	ECTS	10	Duratio	า	1 semester	Method of grad	ing numerical grad	de	Modul level	undergraduate		
	Courses			•	 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-IOC-2-062: P (no information on SWS (weekly contact hours) and course language available) 08-IOC-3-062: S (no information on SWS (weekly contact hours) and course language available) 							
				stated Asses engine Asses Asses	I otherwise, succe sment in module eering and natura 3 ECTS, Method of written examinat sment in module 4 ECTS, Method of Vortestate (pre-e experiment exam Only after succes sment in module 3 ECTS, Method of written examinat	component o8-IOC l science of grading: numeric ion (approx. 60 mi component o8-IOC of grading: (not) su xperiment exams, a is, approx. 15 minu soful completion of component o8-IOC of grading: numeric	f the module will re -1-072: Organic Che al grade hutes) -2-062: Organic Ch ccessfully complete pprox. 15 minutes e tes each) module component -3-062: Tutorial on	emistry for stude emistry Lab for ed each), assessme ts: 08-IOC-1	Il completion of ents of medicin engineering stu ent of practical p	ts as specified below. Unless all individual assessments. e, biomedicine, dental medicine, dents erformance, Nachtestate (post- engineering students		
99-TM-062-m01				ngineering Mechanics								
	ECTS	5	Duration		1 semester	-	ing numerical grac		Modul level	undergraduate		
	Course	-		V + Ü (no information on SWS (weekly contact hours) and course language available)								
	Method	d of ass	sessment	writte	n examination (90	o minutes)	written examination (90 minutes)					

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11-MPI3-062-m01	Mathematics 3 for students of Physics and Engineering												
	ECTS	8	Duratio	n	1 semester		Method of grading	numerical grade		Modul level	undergraduate		
	Courses	S		V + Ü	(no informati	ion on	SWS (weekly contact	hours) and course la	inguage av	ailable)			
	Method	l of ass	essment	writte	written examination (approx. 120 minutes)								
	other prerequisites			to qua cours obtain for as	Admission prerequisite to assessment: successful completion of approx. 50% of exercises. Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment an-								
11-ENNF1-062-m01	Introdu	ction to	Physics	Part 1	for students	of Phy	sics Related Minor S	ubjects					
	-	7	Duratio		1 semester		Method of grading			Modul level	undergraduate		
	Course	S	1	V + Ü	(no informati	ion on	SWS (weekly contact	hours) and course la	inguage av	ailable)			
	Method	l of ass	essment	writte	en examinatio	n (app	prox. 120 minutes)						
	Participants and allo- cation of places			Only a	only as part of pool of general key skills (ASQ): 20 places. Places will be allocated by lot.								
1-ENNF2-062-m01		or place											
11-ENNF2-062-m01		-		Part 2	for students	of Phy	ysics Related Minor S	ubjects					
11-ENNF2-062-m01	Introdu	-			for students	of Phy	ysics Related Minor S Method of grading			Modul level	undergraduate		
11-ENNF2-062-m01	Introdu	ction to	Physics	n	1 semester		-	numerical grade	inguage av		undergraduate		
11-ENNF2-062-m01	Introdu ECTS Courses	ction to 7 s	Physics Duratio	n V+Ü	1 semester (no informati	ion on	Method of grading	numerical grade	nguage av		undergraduate		
11-ENNF2-062-m01	Introdu ECTS Courses	ction to 7 s l of asso ants ar	Duratio	n V + Ü writte	1 semester (no informati en examinatio	ion on on (app	Method of grading SWS (weekly contact	numerical grade hours) and course la		ailable)	undergraduate		
11-ENNF2-062-m01	Introdu ECTS Courses Method Particip cation d	7 5 l of asso ants ar of place	Physics Duratio essment ad allo-	n V + Ü writte Only a	1 semester (no informati en examinatio as part of poc	ion on on (app ol of ge	Method of grading SWS (weekly contact prox. 120 minutes)	numerical grade hours) and course la): 20 places. Places w		ailable)	undergraduate		
	Introdu ECTS Courses Method Particip cation o Physics	7 5 l of asso ants ar of place	Physics Duratio essment ad allo-	n V + Ü writte Only a rse for	1 semester (no informati en examinatio as part of poc	ion on on (app ol of ge	Method of grading SWS (weekly contact prox. 120 minutes) eneral key skills (ASQ) cs Related Minor Subj	numerical grade hours) and course la): 20 places. Places w	vill be alloc	ailable) ated by lot.	undergraduate		
	Introdu ECTS Courses Method Particip cation o Physics	7 s l of asso pants ar of place s Labora 3	Dependence of the provided measurement of the provided mea	n V + Ü writte Only a r se for n	1 semester (no information en examination as part of poor students of f 1 semester	ion on on (app ol of ge Physic	Method of grading SWS (weekly contact prox. 120 minutes) eneral key skills (ASQ) cs Related Minor Subj	numerical grade hours) and course la): 20 places. Places w ects (not) successfully co	vill be alloc	ailable) ated by lot. Modul level			
	Introdu ECTS Courses Method Particip cation of Physics ECTS Courses	ction to 7 s l of asso pants ar of place s Labora 3 s	Dependence of the provided measurement of the provided mea	n V + Ü writte Only a rse for n P (no	1 semester (no information en examination as part of poor students of F 1 semester information of	ion on on (app ol of ge Physic on SW	Method of grading SWS (weekly contact prox. 120 minutes) eneral key skills (ASQ) cs Related Minor Subj Method of grading	numerical grade hours) and course la): 20 places. Places w ects (not) successfully co urs) and course langu	vill be alloc ompleted age availal	ailable) ated by lot. Modul level ple)	undergraduate		
	Introdu ECTS Courses Method Particip cation of Physics ECTS Courses	ction to 7 s d of assi- pants ar of place s Labora 3 s d of assi- pants ar	Dephysics Duratio essment ad allo- es atory Cou Duratio essment ad allo-	n V + Ü writte Only a rse for n P (no a) ora	1 semester (no information en examination as part of poor students of F 1 semester information of al test (approv	ion on on (app ol of ge Physic on SW x. 15 m	Method of grading SWS (weekly contact prox. 120 minutes) eneral key skills (ASQ) cs Related Minor Subj Method of grading /S (weekly contact hou	numerical grade hours) and course la): 20 places. Places w ects (not) successfully course langu ment and b) ungrade	vill be alloc ompleted age availal d written e	ailable) ated by lot. Modul level ple) xamination (ap	undergraduate		
	Introdu ECTS Courses Method Particip cation of Physics ECTS Courses Method Particip cation of	ction to 7 s l of asso pants ar of place s Labora 3 s l of asso pants ar of place	Dephysics Duratio essment ad allo- es atory Cou Duratio essment ad allo-	n V + Ü writte Only a rse for n P (no a) ora Only a	1 semester (no information en examination as part of poor students of F 1 semester information of al test (approv	ion on on (app ol of ge Physic on SW x. 15 m	Method of grading SWS (weekly contact prox. 120 minutes) eneral key skills (ASQ) cs Related Minor Subj Method of grading /S (weekly contact hou ninutes) during experi	numerical grade hours) and course la): 20 places. Places w ects (not) successfully course langu ment and b) ungrade	vill be alloc ompleted age availal d written e	ailable) ated by lot. Modul level ple) xamination (ap	undergraduate		
11-PNNF-062-m01	Introdu ECTS Courses Method Particip cation o Physics ECTS Courses Method Particip cation o Bachelo	ction to 7 s l of asso pants ar of place s Labora 3 s l of asso pants ar of place	Physics Duratio Contemporation Duratio Duratio Duratio Duratio Duratio Contemporatio Duratio Duratio Duratio Contemporatio Conte	n V + Ü writte Only a rse for n P (no a) ora Only a uium	1 semester (no information as part of poor students of F 1 semester information of at test (approx as part of poor 1 semester	ion on on (app ol of ge Physic on SW k. 15 m ol of ge	Method of grading SWS (weekly contact prox. 120 minutes) eneral key skills (ASQ) cs Related Minor Subj Method of grading /S (weekly contact hou ninutes) during experi eneral key skills (ASQ) Method of grading	numerical grade hours) and course la): 20 places. Places w ects (not) successfully co urs) and course langu ment and b) ungrade): 15 places. Places w numerical grade	vill be alloc ompleted age availal d written e ill be alloca	ailable) ated by lot. Modul level ole) xamination (ap ated by lot.	undergraduate		
11-PNNF-062-m01 08-BKOLL-062-	Introdu ECTS Courses Method Particip cation of Physics ECTS Courses Method Particip cation of Bacheld ECTS Courses	ction to 7 s l of asso pants ar of place s Labora 3 s l of asso pants ar of place or Thes 3 s	Dephysics Duratio essment ad allo- atory Cou Duratio essment ad allo- ess is' Colloq Duratio	n V + Ü writte Only a rse for n P (no a) ora a) ora Only a uium n K (no	1 semester (no information as part of poor students of F 1 semester information of at test (approx as part of poor 1 semester	ion on on (app ol of ge Physic on SW x. 15 m ol of ge	Method of grading SWS (weekly contact prox. 120 minutes) eneral key skills (ASQ) cs Related Minor Subj Method of grading /S (weekly contact hou ninutes) during experi- eneral key skills (ASQ) Method of grading /S (weekly contact hou	numerical grade hours) and course la): 20 places. Places w ects (not) successfully co urs) and course langu ment and b) ungrade): 15 places. Places w numerical grade	vill be alloc ompleted age availal d written e ill be alloca	ailable) ated by lot. Modul level ole) xamination (ap ated by lot.	undergraduate		

03-TV-091-m01	Techno	ology of	Composi	te Mat	erials and Technolo	gy of Composite Mat	erials laboratory course				
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		This r	 This module comprises 2 module components. Information on courses will be listed separately for each module component. o3-TV-1-091: V (no information on SWS (weekly contact hours) and course language available) o3-TV-2-091: P (no information on SWS (weekly contact hours) and course language available) 						
	Methoo	d of ass	essment	stated	d otherwise, succes	sful completion of the	essments in the individual moc module will require successfu	Il completion of			
				 Assessment in module component o3-TV-1-091: Technology of Composite Materials 3 ECTS, Method of grading: numerical grade written examination (60 minutes) Assessment in module component o3-TV-2-091: Technology of Composite Materials, laboratory course 2 ECTS, Method of grading: (not) successfully completed oral examination (approx. 15 minutes) 							
10-M-TFU1-091-	Mathe	matics 1	for stude	ents of	Technology of Func	ctional Materials					
m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V + Ü	(no information on	SWS (weekly contact	hours) and course language av	vailable)			
	Metho	d of ass	essment	essment written examination (approx. 90 minutes)							
10-M-TFU2-091-	Mathe	matics a	2 for students of Technology of Functional Materials								
m01	ECTS 10 Duration		n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		Ü + V (no information on SWS (weekly contact hours) and course language available)							
	Method	d of ass	essment	writte	n examination (app	orox. 90 minutes)					

08-IPC-091-m01	Physical Chemistry for engineering students (lecture and laboratory course)										
	ECTS	18	Duratior	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			•	08-IPC-2-062: V + 08-IPC-1-091: V + Ü	Ü (no information on Ü (no information on S	S. Information on courses will be SWS (weekly contact hours) an SWS (weekly contact hours) and S (weekly contact hours) and co	d course langua d course langua	ge available)		
	Method	of asse	essment	Asses	ssment in this modu	lle comprises the ass	essments in the individual mod e module will require successfu	dule component	s as specified below. Unless		
				engin • • Asses stude	eering students Phy 8 ECTS, Method of written examinatic ssment in module co ents Physical Chemis	vsical Chemistry 2 (ba grading: numerical g on (approx. 90 minute omponent 08-IPC-1-0 stry 1 (thermodynami	asics of quantum mechanics an grade es) 91: Physical Chemistry 1 (therm cs, electrochemistry) for engine	d spectroscopy) nodynamics, ele			
				• Asses •	written examinations sement in module co 5 ECTS, Method of Vortestate (pre-exp	grading: (not) succes	es) 9 91: Physical Chemistry for engi ssfully completed ox. 15 minutes each), assessme		s, laboratory course erformance, Nachtestate (post-		
99-EL1-091-m01	Basics o	f Electronics 1									
	ECTS	5	Duratior	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses	;		V + Ü	(no information on	SWS (weekly contact	hours) and course language av	vailable)			
	Method	ofasse	essment	writte	en examination (60 r	minutes)					
99-EL2-091-m01	Basics o	of Electi	ronics 2								
	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses	į		V + Ü	(no information on	SWS (weekly contact	hours) and course language av	vailable)			
	Method	ofasse	essment	writte	en examination (60 r	minutes)		,			
99-CA-091-m01	Comput	er-base	ed Constr	uction	and Assembly (CAD	D/CAM)		,			
	ECTS	6	Duratior	ı	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses	;		V + Ü	(no information on	SWS (weekly contact	hours) and course language av	ailable)			
	Method	ofasse	essment	writte	n examination (90 r	minutes)					
99-IP-091-m01	Laborate	ory Cou	irse on Er	iginee	ring (mechanical ar	nd electrical engineer	ing)				
	ECTS	6	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Courses	;		P (no	information on SWS	6 (weekly contact hou	irs) and course language availa	ble)	,		
	Method	ofasse	essment		ment report / fieldw ourse (approx. 15 to		n practical training / report on p	practical course	/ project report / report on techni-		

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11-TMS-091-m01	Physical Tech	nology of	Materia	al Synthesis. Lectu	re, exercises				
	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 as	sessment	writter	n examination (app	rox. 120 minutes)				
11-PPT-091-m01	Laboratory co	ourse on Pl	nysical	Technology of Mat	erial Synthesis				
	ECTS 5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate	
	Courses		P (no i	nformation on SWS	6 (weekly contact hou	rs) and course language availa	ble)		
	Method of as:	sessment	the exp (exam) repeat	periment is passed) is passed. An exp red once in the resp	l. b) Performing and e eriment log (approx. pective semester. Onl	valuating the experiment will b 8 pages) is to be prepared. Eac	e considered su h component of sessment have	on: approx. 15 minutes) prior to accessfully completed if a Testat the assessment (a and b) can be been successfully completed in	
08-MAM-091-m01	Modern Analy	tical Meth	ods (le	cture and laborato	ry course)				
	ECTS 5	Duratio	n [1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses		•	08-MAM-1-091: V (no information on SV	. Information on courses will be VS (weekly contact hours) and o VS (weekly contact hours) and o	ourse language		
	Method of as	sessment				essments in the individual moc e module will require successfu			
			Assess	3 ECTS, Method of written examinatio sment in module co 2 ECTS, Method of	grading: numerical g on (60 minutes) omponent o8-MAM-2 grading: (not) succes periment exams, app	- 091: Modern Analytics (practic ssfully completed		ach), Nachtestate (post-experi-	

08-10C-062-m02	E CTC											
		10	Duratio		1 semester	Method of grading	-	Modul level	undergraduate			
	Course	S		•	 is module comprises 3 module components. Information on courses will be listed separately for each module o8-IOC-1-072: V (no information on SWS (weekly contact hours) and course language available) o8-IOC-2-062: P (no information on SWS (weekly contact hours) and course language available) o8-IOC-3-062: S (no information on SWS (weekly contact hours) and course language available) 							
	Methoo	d of ass	essment						s as specified below. Unless all individual assessments.			
				engin Asses Asses	 Assessment in module component o8-IOC-1-072: Organic Chemistry for students of medicine, biomedicine, dental medicine, engineering and natural science 3 ECTS, Method of grading: numerical grade written examination (approx. 60 minutes) Assessment in module component o8-IOC-2-o62: Organic Chemistry Lab for engineering students 4 ECTS, Method of grading: (not) successfully completed Vortestate (pre-experiment exams, approx. 15 minutes each), assessment of practical performance (log approx. 5 to 10 pages), Nachtestate (post-experiment exams, approx. 15 minutes each) Other prerequisites: Registration for assessment: as specified. Assessment in module component o8-IOC-3-o62: Tutorial on the Organic Chemistry Lab for engineering students 3 ECTS, Method of grading: numerical grade written examination (60 minutes) Other prerequisites: Registration for assessment: as specified. 							
	other p			By way of exception, additional prerequisites are listed in the section on assessments.								
08-CT-091-m01	Chemic	al Tech	nnology of	f Material Synthesis. Lecture, exercises								
	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			•	08-CT-1-091: V (no	information on SWS	. Information on courses (weekly contact hours) ar (weekly contact hours) ar	nd course language av				
	Method	Method of assessment Assessment in this module comprises the assessments in the individual module comp stated otherwise, successful completion of the module will require successful complet							all individual assessments.			
				• Asses	5 ECTS, Method of written examinatio sment in module co 5 ECTS, Method of	grading: numerical g n (90 minutes) mponent 08-CT-2-09 grading: (not) succes	1: Chemical Technology sfully completed	of Material Synthesis				
					ment exams, appro			s (approx. 5 pages ea	acij, nacilestate (post-expeli-			

Compulsory Electiv		-									
10-I-EPIN-062-m01					nce of all faculties	-	1				
	ECTS	5	Duratio		1 semester	Method of grading		Modul level	undergraduate		
	Course	-					hours) and course language a				
	Method of assessment			written examination (50 minutes) or oral examination (one candidate each: 20 minutes, groups of 2: 25 minutes, groups of 3 25 minutes)							
10-I-DB-072-m01	Data ba	ases									
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	s		V + Ü	(no information on	SWS (weekly contact	hours) and course language a	available)	•		
	Methoo	d of ass	essment		n examination (50 nutes)	minutes) or oral exam	ination (one candidate each:	15 minutes, grou	ups of 2: 20 minutes, groups of 3		
1-N1-072-m01	Basics	of Nano	structure	Techn	ology			1			
	ECTS	6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S	•	V + S	(no information on	SWS (weekly contact	hours) and course language a	vailable)			
	Method	d of ass	essment	writte	n examination (ap	prox. 90 minutes)					
.o-M-ODE-082-	Ordinary Differential Ec			uation	S						
n01	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 a	vailable)	.			
	Method of assessment		essment	written examination (approx. 90 minutes); if announced by the lecturer, the written examination can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English if agreed upon with the examiner							
	other p	rerequi	sites	tive d on to the le sessn	etails at the begin assessment. If stu cturer will put thei nent in the current	ning of the course. Re dents have obtained t r registration for asses	gistration for the course will be he qualification for admission sement into effect. Students w	e considered a d to assessment ho meet all prere	nform students about the respec eclaration of will to seek admissi over the course of the semester, equisites will be admitted to as- ents will have to obtain the quali		
08-BC-TF-062-m01	Bioche	mistry f	or studer	ts of T	echnology of Func	tional Materials					
	ECTS	3	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	s		V + Ü	(no information on	SWS (weekly contact	hours) and course language a	available)			
	Method	d of ass	essment	ent written examination (60 minutes)							
08-PKC-092-m01	Progra	mming	course fo	r Chem	Chemistry Majors						
	ECTS	5	Duratio	n	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 a	available)			
	Method of assessment										

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08-NT-091-m01	Chemic	cally and	d biologio	ally in	spired Nanotechnol	logy for Materials Sy	nthesis					
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		This r	08-NT-1-091: V (no	information on SWS	. Information on courses will be (weekly contact hours) and cou (weekly contact hours) and cou	urse language a				
	Methoo	d of asse	essment		Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.							
				•	 Assessment in module component o8-NT-1-091: Chemically and biologically inspired Nanotechnology for Materials Synthesis 2 ECTS, Method of grading: numerical grade oral examination (approx. 15 minutes) Assessment in module component o8-NT-2-091: From Biomineralisation to biologically inspired Materials Synthesis 3 ECTS, Method of grading: numerical grade 							
				•		approx. 20 minutes)						
08-BC-TF-082-m01	Bioche	mistry f	or Engine	ering	Majors							
	ECTS	3	Duratio	n	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	d of asse	essment	written examination (60 minutes)								
03-TF-FBM-082-	Functio	nal Bio	materials	for students of Technology of Functional Materials								
m01	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S	-	V + P	V + P (no information on SWS (weekly contact hours) and course language available)							
	Methoo	d of asse	essment		ment report / fieldw ourse (approx. 10 pa		practical training / report on p	oractical course	/ project report / report on techni-			
10-M-FAN-072-m01	Introdu	iction to	Functior	al Ana	lysis							
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	-	_		· · · · · · · · · · · · · · · · · · ·		hours) and course language av	-				
	Methoo	d of asse	essment	exam	ination of one candi	idate each (approx. 2			tion can be replaced by an oral roups of 2, approx. 30 minutes)			
		rerequis		tive d on to the le sessn ficatio	etails at the beginni assessment. If stud cturer will put their nent in the current o on for admission to	ing of the course. Reg lents have obtained the registration for asses or in the subsequent s assessment anew.	istration for the course will be he qualification for admission t sment into effect. Students wh	considered a de to assessment c o meet all prere	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-			
	Referre	d to in L	PO I	§73 (1) 1. Mathematik An	alysis						

10-M-NM1-082- m01	Numerical Mathematics 1												
	ECTS 8 Duration		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)									
	Metho	d of ass	essment	written examination (approx. 90 minutes); if announced by the lecturer, the written examination can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English if agreed upon with the examiner									
	other prerequisites			Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.									
	Referre	ed to in l	LPO I	§ 73 (1) 5. Mathematik Angewandte Mathematik									
10-M-NM2-082- m01	Numerical Mathematics 2												
	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)									
	Metho	d of ass	essment	written examination (approx. 90 minutes); if announced by the lecturer, the written examination can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English if agreed upon with the examiner									
	other p	orerequi	sites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.									
	Referre	ed to in l	LPO I	§ 73 (1) 5. Mathematik Angewandte Mathematik									
10-M-PRG-082-	Progra	mming	course fo	r stude	ents of Mathema	atics and other subjects							
m01	ECTS 3 Duratio			n	1 semester	Method of grading	(not) successfully c	completed	Modul level	undergraduate			
	Courses			P (no information on SWS (weekly contact hours) and course language available)									
	Method of assessment			project in the form of programming exercises (as specified at the beginning of the course) Language of assessment: German, English if agreed upon with the examiner									
	other prerequisites			Admission prerequisite to assessment: regular attendance (attendance monitored, a maximum of one incident of unexcused absence).									
				ubsei	100).								

10-M-COM-082-	Computeroriented Mathematics											
m01	ECTS 3 Duration		n	1 semester	Method of grading	g (not) successfully complete	d Modul level	undergraduate				
	Courses			V + Ü (no information on SWS (weekly contact hours) and course language available)								
	Methoo	d of ass	essment	project in the form of programming exercises (as specified at the beginning of the course) Assessment offered: once a year, summer semester Language of assessment: German, English if agreed upon with the examiner								
	other prerequisites			Admission prerequisite to assessment: regular attendance of exercises (attendance monitored, a maximum of one incident of unexcused absence).								
	Referred to in LPO I			§ 73 (1) 5. Mathematik Angewandte Mathematik								
Subject-specific K	ey Skills	(10 ECT	S credits)									
08-FS2-062-m01	Material Science 2 (the material groups)											
	ECTS 5 Duratio		n	1 semester	Method of grading	g numerical grade	Modul level	undergraduate				
	Courses			V + Ü (no information on SWS (weekly contact hours) and course language available)								
	Method of assessment			written examination (60 minutes)								
08-FS1-091-m01	Material Science 1 (basic introduction)											
	ECTS 5 Duratio		n	1 semester	Method of grading	g numerical grade	Modul level	undergraduate				
	Courses		V + Ü (no information on SWS (weekly contact hours) and course language available)									
	Method	d of ass	essment	written examination (90 minutes)								
Thesis (12 ECTS cr	edits)											
08-BT-062-m01	Bachelor's Thesis											
	ECTS 12 Duratio		n	1 semester	Method of grading	g numerical grade	Modul level	undergraduate				
	Courses			no courses assigned								
	Method of assessment			written thesis Language of assessment: German or English								
	other prerequisites			Registration for assessment on a continuous basis as agreed upon with supervisor.								