



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: 2015 Abbreviations used: Course types: $\mathbf{E} = \text{field trip}$, $\mathbf{K} = \text{colloquium}$, $\mathbf{O} = \text{conversatorium}$, $\mathbf{P} = \text{placement/lab course}$, $\mathbf{R} = \text{project}$, $\mathbf{S} = \text{seminar}$, $\mathbf{T} = \text{tutorial}$, $\mathbf{\ddot{U}} = \text{exercise}$, \mathbf{V} = lecture Term: **SS** = summer semester, **WS** = winter semester Methods of grading: NUM = numerical grade, B/NB = (not) successfully completed Regulations: (L)ASPO = general academic and examination regulations (for teaching-degree programmes), FSB = subject-specific provisions, SFB = list of modules Other: A =thesis, LV =course(s), PL =assessment(s), TN =participants, VL =prerequisite(s) Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not cre-Conventions for the modules in this SFB: ditable for bonus. Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the me-Information on thod of assessment to be used in the current semester by two weeks after the start of the course at the latest and will communicate this in the assessment procedures: customary manner. Should a module comprise more than one graded assessment, all assessments will be equally weighted, unless otherwise stated below. Should the assessment comprise several individual assessments, successful completion of the module will require successful completion of all individual assessments.

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

ASPO2015

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

12-Aug-2015 (2015-81)

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:

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

Compulsory Cours	es (118 EC	TS credits)									
Nanostructure Tec	hnology (2	7 ECTS credi	s)								
11-N-EIN-152-m01	Introduct	tion to Nanos	cience								
	ECTS 7	[,] Durat	on	2 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			/ (2) + S (2) Aodule taught in: German or English							
	Method o	of assessmen		a) talk (30 to 45 minutes) with discussion and b) written examination (approx. 120 minutes) Language of assessment: German and/or English							
	other pre	requisites	Adm	ission prerequisite I	to assessment: regula	ar attendance (minimum 85% -	of sessions).				
	Additiona	al Information	cons nera the o stud for a sess	sidered a declaratior l academic and exar qualification for adm ents that meet the r n assessment or wh	n of will to seek admi mination regulations) nission to assessmen espective prerequisit lose registration for a	ssion to assessment pursuant . If the module coordinators so t, they will put the student's re es can successfully register fo n assessment was not put into	to Section 20 Su ubsequently find gistration for ass r an assessment. o effect will not be	on to assessment, this will be bsection 3 Sentence 4 ASPO (ge- that the student has obtained sessment into effect. Only those Students who did not register e admitted to the respective as- de achieved in this assessment			
11-N-IP-152-m01	Industrial Internship										
	ECTS 1	o Durat	on	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		. ,	+ S (1)							
	Method o	of assessmen		a) report on practical course (approx. 15 pages) and b) presentation/talk (approx. 45 minutes), weighted 1:4 Language of assessment: German and/or English							
	Additiona	al Information	cons nera the o stud for a sess	Registration: If a student registers for the exercises and obtains the qualification for admission to assessment, this will be considered a declaration of will to seek admission to assessment pursuant to Section 20 Subsection 3 Sentence 4 ASPO (general academic and examination regulations). If the module coordinators subsequently find that the student has obtained the qualification for admission to assessment, they will put the student's registration for assessment into effect. Only those students that meet the respective prerequisites can successfully register for an assessment. Students who did not register for an assessment or whose registration for an assessment was not put into effect will not be admitted to the respective assessment. If a student takes an assessment to which he/she has not been admitted, the grade achieved in this assessment will not be considered.							
o8-AC-Ex-	Experime	ental Chemist	ry								
Chem-152-m01	ECTS 5	5 Durat		1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V (4)								
	Method o	of assessmen		en examination (app guage of assessmen	prox. 90 minutes) t: German and/or Eng	glish					

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08-ACP-NF-152-	General	and Ar	alytical	Chemis	try for students of r	natural sciences (lab)				
m01	ECTS 2	2	Duratio	1	1 semester	Method of grading (not) successfully completed	Modul level	undergraduate		
	Courses			P (4)						
	Method of	ofasse	essment	Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each)						
						cal performance (2 to 4 random examinations) German and/or English				
						e a year, summer semester				
	Modules complete		ssfully	o8-AC-ExChem						
08-0C-NF-152-m01	Organic	Chemi	stry for s	tudent	s of medicine, biom	edicine, dental medicine and natural sciences				
	ECTS 3	3	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Courses			V (2)						
	Method									
Classical Physics (:	16 ECTS ci	redits)				German and/or English				
11-E-M-152-m01	Classical Physics 1 (Mechanics)									
	ECTS 8 Duratio			n	1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Courses			V (4) +			•			
				Module taught in: Ü: German or English						
	Method	ofasse	essment	written examination (approx. 120 minutes) Language of assessment: German and/or English						
	other pre	erequis	sites	Admission prerequisite to assessment: completion of exercises (approx. 13 exercise sheets per semester). Students who						
					successfully completed approx. 50% of exercises will qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the semester.					
	Addition	al Info	rmation	Registration: If a student registers for the exercises and obtains the qualification for admission to assessment, this will be considered a declaration of will to seek admission to assessment pursuant to Section 20 Subsection 3 Sentence 4 ASPO (ge-						
				neral academic and examination regulations). If the module coordinators subsequently find that the student has obtained the qualification for admission to assessment, they will put the student's registration for assessment into effect. Only those						
						spective prerequisites can successfully register for a				
						use registration for an assessment was not put into e kes an assessment to which he/she has not been ac				
					ot be considered.		unnitteu, the gia	de achieved in this assessment		
	Referred	to in L	PO I		Nr. 1 a)					
				§ 77 I	Nr. 1 a)					

11-E-E-152-m01	Classical Physics 2 (Heat and Electromagnetism)										
	ECTS 8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			V (4) + Ü (2) Module taught in: Ü: German or English							
	Method o	fassessment	writt	written examination (approx. 120 minutes) Language of assessment: German and/or English							
	other prei	requisites	succ	Admission prerequisite to assessment: completion of exercises (approx. 13 exercise sheets per semester). Students who successfully completed approx. 50% of exercises will qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the semester.							
	Additiona	I Information	cons nera the c stud for a sess	idered a declarati academic and ex ualification for ad ents that meet the n assessment or w	on of will to seek admis amination regulations). Imission to assessment respective prerequisite whose registration for an takes an assessment to	sion to assessment pu If the module coordin , they will put the stud s can successfully reg assessment was not	ursuant to Section 20 Su ators subsequently find lent's registration for ass sister for an assessment. put into effect will not be	on to assessment, this will be bsection 3 Sentence 4 ASPO (ge- that the student has obtained sessment into effect. Only those Students who did not register e admitted to the respective as- de achieved in this assessment			
	Referred t	to in LPO I		§ 53 Nr. 1 a) § 77 Nr. 1 a)							
Optics and Quantu	m Physics I (6 ECTS credits)										
11-E-OAV-152-m01	Optics an	d Quantum P	hysics								
	ECTS 6	Duratio	n	2 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V (4)	+ V (4)							
	Method o	f assessment		oral examination of one candidate each (approx. 30 minutes) Language of assessment: German and/or English							
Optics and Quantu	m Physics	ll (10 ECTS cr	edits)								
11-E-OA-152-m01	Optics an	d Waves - Exe	rcises								
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	·		Ü (2) Module taught in: Ü: German or English							
	Method o	fassessment	writt Lang	written examination (approx. 120 minutes) Language of assessment: German and/or English							
	Referred t	to in LPO I		Nr. 1 a) Nr. 1 a)							

11-E-AA-152-m01	Atoms and Qu	anta - Exe	rcises							
	ECTS 5	Duration	n	1 semester	Method of grading nur	nerical grade	Modul level	undergraduate		
	Courses		Ü (2)							
			Module taught in: Ü: German or English							
	Method of ass	essment	writter	n examination (app	prox. 120 minutes) t: German and/or English					
Calld Chata Dhuain		-)	Laligu	age of assessmen	l: German and/or English					
Solid State Physics				•						
11-E-F-152-m01	Introduction to						1			
	ECTS 8	Duratio		1 semester	Method of grading nur	nerical grade	Modul level	undergraduate		
	Courses		V (4) + Modul	- U (2) le taught in: Ü: Gei	man or English					
	Method of ass	essment			prox. 120 minutes) t: German and/or English					
Theoretical Physics	s I (6 ECTS cred	its)		-						
11-T-QS-152-m01	Quantum Mec	hanics an	d Statis	stical Physics						
	ECTS 6 Duration		n	2 semester	Method of grading nur	nerical grade	Modul level	undergraduate		
	Courses		V (4) +	· V (4)						
	Method of ass	essment	oral examination of one candidate each (approx. 30 minutes) Language of assessment: German and/or English							
Theoretical Physics	s II (10 ECTS cre	dits)								
11-T-QA-152-m01	Quantum Mechanics - Exercises									
	ECTS 5	Duratio	n	1 semester	Method of grading nur	nerical grade	Modul level	undergraduate		
	Courses		Ü (2) Module taught in: Ü: German or English							
	Method of ass	essment	written examination (approx. 120 minutes) Language of assessment: German and/or English							
	other prerequi	isites	Admission prerequisite to assessment: completion of exercises (approx. 13 exercise sheets per semester). Students who successfully completed approx. 50% of exercises will qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the semester.							
Additional InformationRegistration: If a student registers for the exercises and obtains the qualification considered a declaration of will to seek admission to assessment pursuant to Se neral academic and examination regulations). If the module coordinators subsec the qualification for admission to assessment, they will put the student's registra students that meet the respective prerequisites can successfully register for an a for an assessment or whose registration for an assessment was not put into effect sessment. If a student takes an assessment to which he/she has not been admit will not be considered.								bsection 3 Sentence 4 ASPO (ge- that the student has obtained sessment into effect. Only those Students who did not register e admitted to the respective as-		

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11-T-SA-152-m01	Statistical Phy	sics - Exe	ercises								
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		Ü (2) Modu	Ü (2) Module taught in: Ü: German or English							
	Method of assessment		written examination (approx. 120 minutes) Language of assessment: German and/or English								
Mathematics (24 E	CTS credits)										
10-M-PHY1-152-	Mathematics 1	Nathematics 1 for Students of Physics and Nanostructure Technology									
m01	ECTS 8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			/ (5) + Ü (2) Aodule taught in: Ü: German or English							
	Method of asso	essment	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus								
10-M-PHY2-152-	Mathematics 2 for Students of Physics and Nanostructure Technology										
m01	ECTS 8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V (5) + Ü (2) Module taught in: Ü: German or English								
	Method of asso	essment	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus								
11-M-D-152-m01	Mathematics 3	for Stud	ents of	Physics and relate	d Disciplines (Differen	tial Equations)					
	ECTS 8 Duration		n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		× 12	V (4) + Ü (2) Module taught in: Ü: German or English							
	Method of asso	essment	written examination (approx. 120 minutes) Language of assessment: German and/or English								

Laboratory Course	Physics	(11 ECT	S credits)	I							
11-P-PA-152-m01	Labora	tory Co	urse Phys	ics A (Mechanics, Heat, El	Electromagnetism)					
	ECTS 3 Duratio		n	1 semester	Method of grading (not) successfully completed Modul level undergraduate						
	Course	S		P (2)	`						
	Methoo	d of ass	essment	Prepa pleteo comp sics-r	practical assignment with talk (approx. 30 minutes) Preparing, performing and evaluating (record of readings or lab report) the experiments will be considered successfully com- pleted if a Testat (exam) is passed. Exactly one experiment that was not successfully completed can be repeated once. After completion of all experiments, talk (with discussion; approx. 30 minutes) to test the candidate's understanding of the phy- sics-related contents of the module. Talks that were not successfully completed can be repeated once. Both components of the assessment have to be successfully completed.						
11-P-NB-152-m01	Laboratory Course Physics B (Classical Physics, Electricity, Circuits)										
	ECTS	4	Duratio	n	1 semester	Method of grading (not) successfully completed Modul level undergraduate					
	Courses			P (2)							
	Method of assessment			practical assignment with talk (approx. 30 minutes) Preparing, performing and evaluating (record of readings or lab report) the experiments will be considered successfully com- pleted if a Testat (exam) is passed. Exactly one experiment that was not successfully completed can be repeated once. After completion of all experiments, talk (with discussion; approx. 30 minutes) to test the candidate's understanding of the phy- sics-related contents of the module. Talks that were not successfully completed can be repeated once. Both components of the assessment have to be successfully completed.							
	other prerequisites			Students are highly recommended to complete modules 11-P-PA and 11-P-FR1 prior to completing module 11-P-NB.							
11-P-NC-152-m01	Advanced Laboratory Course Physics C (Modern Physics, Computer Aided Experiments)										
	ECTS	4	Duration	n	1 semester	Method of grading (not) successfully completed Modul level undergraduate					
	Course	S		P (2)							
	Methoo	d of ass	essment	practical assignment with talk (approx. 30 minutes) Preparing, performing and evaluating (record of readings or lab report) the experiments will be considered successfully com- pleted if a Testat (exam) is passed. Exactly one experiment that was not successfully completed can be repeated once. After completion of all experiments, talk (with discussion; approx. 30 minutes) to test the candidate's understanding of the phy- sics-related contents of the module. Talks that were not successfully completed can be repeated once. Both components of the assessment have to be successfully completed.							
	other p	rerequi	sites	Stude	ents are highly recon	ommended to complete module 11-P-NB prior to completing module 11-P-NC.					

Compulsory Electiv	ves (32 ECTS cro	edits)								
Semiconductor Ele	ctronics (6 ECT	S credits)								
11-EL-152-m01	Electronic Cire	cuits								
	ECTS 6	Duratior	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V (3) + R (1) Module taught in: German or English							
	Method of ass		 a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: Once a year, summer semester 							
11-SPD-152-m01	Physics of Se	miconduct								
	ECTS 6	Duratior		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V (3) + R (1) Module taught in: German or English							
	Method of ass		 a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: Once a year, summer semester 							

	Semico	onducto	or Lasers a	nd Photonics						
	ECTS	6	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	!5		V (3) + R (1) Module taught in: Ger	man or English					
	Method of assessment			a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: Once a year, summer semester						
11-HLP-152-m01				onductor Physics						
	ECTS	6	Duration		Method of grading	numerical grade	Modul level	undergraduate		
	Course	!S		V (3) + R (1) Module taught in: German or English						
	Method of assessment			 a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: Once a year, summer semester 						
11-KDS-152-m01		_		ers and Lithography		1				
	ECTS	6	Duration		Method of grading	numerical grade	Modul level	undergraduate		
	Course	!5		V (3) + R (1) Module taught in: German or English						
	Metho	d of ass		 a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: Once a year, winter semester 						

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11-BXN6A-152-m01	1-BXN6A-152-mo1 Current Topics in Semiconductor Electronics										
	ECTS	6	Duratio	n	1 semester	Method of grading numerical gra	ade	Modul level	unknown		
	Course	S		V (3) ·	+ R (1)						
				written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral ex- amination in groups (groups of 2, approx. 30 minutes) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German or English							
	other p	orerequi	sites	Appro	oval by examination	n committee required.					
Materials Science											
11-NAN-152-m01	Nanoanalytics										
	ECTS 6 Duratio			n	1 semester	Method of grading numerical gra	ade	Modul level	graduate		
	Courses			V (3) + R (1) Module taught in: German or English							
	Methoo	d of ass	essment	b) ora c) ora d) pro e) pre If a wi form o the le Langu	al examination of o l examination in gr oject report (approx esentation/talk (ap ritten examination of an oral examinat cturer must inform uage of assessmen		tes per candidate ent, this may be c Il examination in	changed and ass groups. If the m	ethod of assessment is changed,		

11-ENT-152-m01	Princip	les of E	nergy Tec	hnolog	gies				
	ECTS	6	Duratior	า	1 semester	Method of grading	numerical grade	Modul level	graduate
	Course	S		V (3) - Modu	+ R (1) le taught in: Germ	an or English		*	
	Methoo	d of ass	essment	 a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes) If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: Once a year, winter semester 					
	Referred to in LPO I			§ 22 Nr. 1 h) § 22 Nr. 2 f) § 22 Nr. 3 f)					
11-NTE-152-m01									
	ECTS	6	Duratior		1 semester	Method of grading	numerical grade	Modul level	graduate
	Course	S		V (3) - Modu	+ R (1) le taught in: Germ	an or English			
	Methoo	d of ass		b) ora c) ora d) pro e) pre If a wi form o the le Langu	Il examination of c l examination in g oject report (appro sentation/talk (ap ritten examination of an oral examina cturer must inforn uage of assessmer	x. 8 to 10 pages) or prox. 30 minutes). was chosen as methor tion of one candidate e	prox. 30 minutes) or prox. 30 minutes per candida d of assessment, this may b each or an oral examination y four weeks prior to the orig ish	e changed and ass in groups. If the m	sessment may instead take the ethod of assessment is changed, date at the latest.

11-PPT-152-m01	Labora	tory Co	urse Phys	ical Te	echnology of Materia	al Synthesis					
	ECTS	8	Duratio	n	1 semester	Method of grading (not) successfully completed	Modul level	undergraduate			
	Course	S	_	P (5) Modu	P (5) Module taught in: German or English						
	Methoo	d of ass	essment	passe sed. A respe the m Langu Asses	Preparation of the experiment will be considered successfully completed if a pre-experiment oral test (approx. 15 minutes) is passed. Performing and evaluating the experiments will be considered successfully completed if a if a Testat (exam) is passed. An experiment log (approx. 8 pages) must 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. Language of assessment: German and/or English Assessment of force a year, winter semester						
		prerequi				rkstoffe (Functional Materials, Bachelor's) are recon	nmended to tak	e module 11-P-FR1.			
11-BVG-152-m01		-			on Vapour Deposition						
	ECTS 5 Duratio				1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses				V (3) + R (1) Module taught in: German or English						
				b) ora c) ora d) pro e) pre If a wi form o the le Langu Asses	 a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead ta form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is or the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: Once a year, summer semester 						
o8-FU-Mo-	Molecu	ılar Mat	erials (Le	cture)							
MaV-152-m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Course	!S		V (3) ·	+ S (1)						
	Method of assessment			exam (appr	ination in groups of ox. 30 minutes)] as v	approx. 90 to 180 minutes) or b) oral examination o up to 3 candidates (approx. 15 minutes per candida well as talk (approx. 30 minutes), weighted 3:1 German and/or English					

08-FU-NT-152-m01	Chemically	and bio-ins	pired N	lanotechnology for I	Material Synthesis							
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		V (4)				,	_				
	Method of a	issessment	a) wri	itten examination (a	pprox. 90 to 180 min	utes) or						
					e candidate each (20							
						dates (approx. 15 minutes p	er candidate) or					
				d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English								
08-PCM3-152-m01	Nanoscale I	Materials										
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		S (2)	(2) + Ü(1)								
	Method of a	ssessment			rox. 90 minutes) or o	ral examination of one can	didate each (appro>	. 20 minutes) or talk (approx. 30				
			minu									
				uage of assessment: table for bonus	: German and/or Eng	lish						
o8-FU-Ma-	Matorial Sci	Material Science 1 (Basic introduction)										
Wi1-152-m01	ECTS 5	Duratio	_	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
		Duratio			method of grading	numencal glade	Modul level	undergraduate				
	Courses			+ Ü (1)								
	Method of a	ssessment	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or									
			c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or									
				d) log (approx. 20 pages) or								
				esentation (approx.								
					: German and/or Eng	lish						
o8-FU-Ma-	Material Sc			ial Groups)	2		-					
Wi2-152-m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		V (3)	+ Ü (1)								
	Method of a	ssessment			pprox. 90 to 180 min							
		b) oral examination of one candidate each (20 to 30 minutes) or										
		c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or										
			d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)									
					: German and/or Eng	lish						

08-FU-NT-AA-152-	Chemic	al Nanc	otechnolo	gy: An	alytics and Applicat	tions					
m01	ECTS	5	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V (4)	V (4)						
	Methoo	1 of ass	essment	 a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English 							
11-ZMB-152-m01	Methods of Non-Destructive Material Testing										
	ECTS 4 Duratio			ı	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			V (2) + R (1) Module taught in: German or English							
	Method of assessment			 a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: Once a year, winter semester 							

Life Sciences	Membranebi	nlogy of Pl	ants for Advanced Stu						
PS2-152-m01	ECTS 5	Duratio	n 1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses		V (1) + Ü (5)						
	Method of as	sessment	 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) or f) practical examination (on average approx. 2 hours; time to complete will vary according to subject area but will not exceed a maximum of 4 hours). Students will be informed about the method and length of the assessment prior to the course. 						
	Participants a cation of plac		Students of the Back Should the module b chelor's degree subj located to students of degree subjects Com cation-oriented subj available in one quo quota. Should there form regulation for th concerned will be all least one other mod A waiting list will be Selection process gr ments. For this purper rage grade of all ass cluding Chemie (Che lows: First, applicant dits (qualitative rank applicants' position ding to this third ran king or otherwise by Selection process gr number of ECTS cred the same number of sters of the respectiv lot. Quota 3 (25 % of Should the module b	oup 2 (5%): Places will be allocated according t lits already achieved in modules/module comp ECTS credits achieved, places will be allocated /e applicant; among applicants with the same r	So ECTS credits will be given tas: 95% of places will be d 5% of places (a minimu ogy) with 60 ECTS credits hematics), each with 180 of other 'importing' subject aining places will be alloce urses with a restricted num ase, places on all courses re, applicants who alread e given preferential consist come available. according to the applicar number of ECTS credits t odule components in the natics)) at the time of app age grade weighted acco nber of ECTS credits achie of these two rankings, all , places will be allocated to the following quotas: O onents of the Faculty of E l by lot. Quota 2 (25% of number of subject semes	ven preferential consideration. e allocated to students of the Ba- m of one place in total) will be al- and to students of the Bachelor's ECTS credits, as part of the appli- cts). Should the number of places cated to applicants from the other mber of places, there will be a uni- s of a module component that are y have successfully completed at deration. Ats' previous academic achieve- hey have achieved and their ave- subject of Biologie (Biology) (ex- olication. This will be done as fol- rding to the number of ECTS cre- eved (quantitative ranking). The nd places will be allocated accor- according to the qualitative ran- Quota 1 (50 % of places): total Biology; among applicants with places): number of subject seme- ters, places will be allocated by			

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07-4S1AM-	Methods in Biotechnology											
B-152-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		V (2) -	+ S (2)							
	Method	d of ass	essment	written examination (approx. 30 to 60 minutes) creditable for bonus								
		pants ar		Stude Shoul chelo locate degre catior availa quota form r conce least A wait Select ments rage g cludir lows: dits (d applid ding t king c Select numb the sa sters lot. Qi	Id the number of ap ents of the Bachelor Id the module be us r's degree subject B ed to students of the es subjects Computa h-oriented subject B able in one quota ex a. Should there be, v regulation for the co erned will be allocat one other module ca ting list will be main tion process group a s. For this purpose, a grade of all assessm ng Chemie (Chemist First, applicants wil qualitative ranking) cants' position in a t to this third ranking. or otherwise by lot. tion process group a to the respective ap uota 3 (25 % of plac Id the module be us	T's degree subject Biol sed in other subjects, Biologie (Biology) with e Bachelor's degree si ational Mathematics a Biology (as well as pot cceed the number of a within one module cor- burses of one module ted in the same proce- component of the resp ntained and places re- 1 (95%): Places will per applicants will be ran nents taken during the try), Physik (Physics), Il be ranked, firstly, ac and, secondly, accord third ranking will be c s. Among applicants w 2 (5%): Places will be already achieved in mo S credits achieved, pla oplicant; among applic ces): lottery.	a 180 ECTS credits and 5% of pl. ubject Biologie (Biology) with 6 and Mathematik (Mathematics) pentially to students of other 'in upplications, the remaining place monent, several courses with component. In this case, place dure. In this procedure, applicate edure. In this procedure, applicate edure as they become avait rimarily be allocated according ked according to the number of eir studies or of all module com Mathematik (Mathematics)) at coording to their average grade ding to their total number of EC alculated as the sum of these to ith the same ranking, places w allocated according to the follo odules/module components of aces will be allocated by lot. Que cants with the same number of or's degree subject Biologie (B	redits will be giv of places will be aces (a minimu to ECTS credits aces will be alloc a restricted nur es on all courses ants who alread eferential consider to the applican of ECTS credits the the time of app weighted accoust two rankings, and ill be allocated owing quotas: C the Faculty of E uota 2 (25 % of subject semest	ven preferential consideration. e allocated to students of the Ba- m of one place in total) will be al- and to students of the Bachelor's ECTS credits, as part of the appli- its). Should the number of places ated to applicants from the other nber of places, there will be a uni- of a module component that are y have successfully completed at deration. ts' previous academic achieve- ney have achieved and their ave- subject of Biologie (Biology) (ex- lication. This will be done as fol- rding to the number of ECTS cre- eved (quantitative ranking). The nd places will be allocated accor- according to the qualitative ran-			

07-4S1MOLB-152- Asp											
mo1 ECT	TS 5	5 Duration	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
Cou	urses		V (2) +	- S (2)							
Met	thod o	of assessment			rox. 30 to 60 minutes						
Dart	ticina	nts and allo	creditable for bonus								
		nts and allo- places	Studer Should chelor locate- degree cation availal quota. form re concer least of A waiti Select ments rage g cludin lows: f dits (q applic. ding to king of Select numbe the sa sters of lot. Qu Should	d the number of app nts of the Bachelor's d the module be use 's degree subject Bi d to students of the e subjects Computa -oriented subject Bi ble in one quota exe . Should there be, w egulation for the courned will be allocate one other module co ing list will be allocate one other module co ing list will be main ion process group 1 . For this purpose, a rade of all assessm g Chemie (Chemistr First, applicants will jualitative ranking) a ants' position in a t o this third ranking. r otherwise by lot. ion process group 2 er of ECTS credits al me number of ECTS of the respective app uota 3 (25 % of place d the module be use	s degree subject Biol ed in other subjects, iologie (Biology) with Bachelor's degree s tional Mathematics a iology (as well as pot ceed the number of a vithin one module co- urses of one module ed in the same proce- omponent of the resp tained and places re- (95%): Places will be ranked, firstly, ac and, secondly, accord hird ranking will be co- hird ranking will be co- Among applicants will e (5%): Places will be ready achieved in mo- credits achieved, pla- plicant; among appli-	there will be two quotas: 95 180 ECTS credits and 5% of ubject Biologie (Biology) with and Mathematik (Mathemati entially to students of other pplications, the remaining p mponent, several courses w component. In this case, pla dure. In this procedure, app ective module will be given allocated as they become a rimarily be allocated accord ked according to the number of alculated as the sum of the ith the same ranking, places allocated according to the f bodules/module components aces will be allocated by lot. cants with the same number or's degree subject Biologie	S credits will be given % of places will be f places (a minimu th 60 ECTS credits ics), each with 180 oblaces will be alloc ith a restricted nur aces on all courses licants who alread preferential considered vailable. ing to the applican er of ECTS credits the of ECTS credits achies se two rankings, ar s will be allocated following quotas: C s of the Faculty of E Quota 2 (25 % of r of subject semest	ven preferential consideration. e allocated to students of the Ba- m of one place in total) will be al- and to students of the Bachelor's ECTS credits, as part of the appli- its). Should the number of places ated to applicants from the other nber of places, there will be a uni- s of a module component that are y have successfully completed at			

07-4S1M-	Specia	al Bioinf	ormatics 1	1							
Z6-152-m01	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	es		V (1) +	+ Ü (5)						
	Metho	d of ass	essment	Langu	Log (approx. 10 to 20 pages) Language of assessment: German or English creditable for bonus						
		pants ar	25	Stude Shoul chelo locate degre catior availa quota form r conce least of A wait Select ments rage g cludir lows: dits (c applic ding t king o Select numb the sa sters o lot. Qu Shoul	ents of the Bachelor' Id the module be use or's degree subject Bi ed to students of the ee subjects Computa n-oriented subject Bi able in one quota exe a. Should there be, w regulation for the co- erned will be allocate one other module co- ting list will be main the process group 1 s. For this purpose, a grade of all assessm ng Chemie (Chemistri First, applicants will qualitative ranking) a cants' position in a t to this third ranking. or otherwise by lot. this third ranking. or otherwise by lot. the respective applicants al ame number of ECTS of the respective applicants al ame number of place buota 3 (25 % of place Id the module be use	s degree subject Biol ed in other subjects, iologie (Biology) with Bachelor's degree su ational Mathematics a iology (as well as pote ceed the number of a vithin one module cor urses of one module ed in the same process omponent of the resp tained and places re- to (95%): Places will pr applicants will be ran tents taken during the ry), Physik (Physics), f l be ranked, firstly, ac and, secondly, accord third ranking will be con- third ranking will b	there will be two quotas: 95% 180 ECTS credits and 5% of pl ubject Biologie (Biology) with 6 and Mathematik (Mathematics) entially to students of other 'in pplications, the remaining pla mponent, several courses with component. In this case, place dure. In this procedure, applicate ective module will be given pro- allocated as they become avai- rimarily be allocated according ked according to the number of eir studies or of all module com Mathematik (Mathematics)) at coording to their average grade ding to their total number of EC alculated as the sum of these ith the same ranking, places w allocated according to the foll odules/module components of aces will be allocated by lot. Qu cants with the same number of or's degree subject Biologie (B	redits will be giv of places will be laces (a minimum 60 ECTS credits a), each with 180 mporting' subject ces will be alloct a restricted nur es on all courses ants who alread eferential consid- ilable. g to the applican of ECTS credits the mponents in the t the time of app e weighted accord CTS credits achies two rankings, ar vill be allocated cowing quotas: C f the Faculty of B uota 2 (25 % of p f subject semest	ven preferential consideration. e allocated to students of the Ba- m of one place in total) will be al- and to students of the Bachelor's ECTS credits, as part of the appli- cts). Should the number of places cated to applicants from the other mber of places, there will be a uni- s of a module component that are y have successfully completed at deration. Ats' previous academic achieve- hey have achieved and their ave- subject of Biologie (Biology) (ex- plication. This will be done as fol- rding to the number of ECTS cre- eved (quantitative ranking). The nd places will be allocated accor- according to the qualitative ran-		

07-4S1M-	Basics in Ligh	t- and Elec	ctron-Microscopy							
Z1-152-m01	ECTS 5	Duration		Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V (1) + Ü (5)							
	Method of ass		written examination (approx. 30 to 60 minutes) creditable for bonus							
	Participants a cation of place	25	Students of the Bachel Should the module be chelor's degree subject located to students of degree subjects Comp cation-oriented subject available in one quota quota. Should there be form regulation for the concerned will be alloce least one other module A waiting list will be m Selection process grou ments. For this purpos rage grade of all asses cluding Chemie (Chem lows: First, applicants dits (qualitative rankin applicants' position in ding to this third ranki king or otherwise by lo Selection process grou number of ECTS credits the same number of EC sters of the respective lot. Quota 3 (25 % of p Should the module be	lor's degree subject Biol used in other subjects, t Biologie (Biology) with the Bachelor's degree s utational Mathematics a t Biology (as well as pot exceed the number of a e, within one module co courses of one module cated in the same proce e component of the resp aintained and places re p 1 (95%): Places will p e, applicants will be ran sments taken during the istry), Physik (Physics), will be ranked, firstly, ac g) and, secondly, accord a third ranking will be con g. Among applicants w t. p 2 (5%): Places will be salready achieved in mo CTS credits achieved, pla applicant; among appli laces): lottery.	there will be two quotas: 9, 180 ECTS credits and 5% of ubject Biologie (Biology) wi and Mathematik (Mathemati- tentially to students of othe applications, the remaining mponent, several courses w component. In this case, pi- dure. In this procedure, app- bective module will be giver- allocated as they become a rimarily be allocated accord ked according to the numb- eir studies or of all module Mathematik (Mathematics) ccording to their average gr ding to their total number of calculated as the sum of the with the same ranking, place allocated according to the odules/module component aces will be allocated by lot cants with the same number lor's degree subject Biologi	S credits will be given of places (a minimulation of places (a minimulation of places (a minimulation), each with 1800 r 'importing' subject places will be alloce with a restricted number of a construction of a	ven preferential consideration. e allocated to students of the Ba- im of one place in total) will be al- and to students of the Bachelor's o ECTS credits, as part of the appli- cts). Should the number of places cated to applicants from the other mber of places, there will be a uni- s of a module component that are ly have successfully completed at			

07-5S2M-	Specif	ic Biote	chnology	2								
Z4-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	es			J (7) + S (1) Module taught in: German and/or English							
			sessment	b) log c) ora d) or e) pr f) pra maxi Stud Lang credi	 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) or f) practical examination (on average approx. 2 hours; time to complete will vary according to subject area but will not exceed a maximum of 4 hours). Students will be informed about the method and length of the assessment prior to the course. Language of assessment: German and/or English creditable for bonus 							
		pants a of plac	ind allo- es	Shou Stud Shou cheld locat degre catio avail quot form conc least A wa Selec ment rage cludi lows dits (appli ding king Selec numi the s sters lot. C Shou	ents of the Bache ald the module be or's degree subject eed to students of ee subjects Comp on-oriented subject able in one quota a. Should there be regulation for the erned will be allow one other module iting list will be m ction process grou ts. For this purpos grade of all asses ng Chemie (Chem : First, applicants (qualitative rankin icants' position in to this third ranki or otherwise by lo ction process grou ber of ECTS credit: ame number of EC of the respective Quota 3 (25 % of p ald the module be	up 2 (5%): Places will be allocated according to t s already achieved in modules/module compon CTS credits achieved, places will be allocated by applicant; among applicants with the same nur	ECTS credits will be gives: 95% of places (a minimu b) with 60 ECTS credits matics), each with 180 other 'importing' subjecting places will be allocted es with a restricted nur- e, places on all courses applicants who alread iven preferential considered iven preferential considered in the time of applicant and the time of applicant in the time of applicant in the time of applicant is the set wo rankings, and acces will be allocated the following quotas: Considered of the Faculty of E y lot. Quota 2 (25% of mber of subject semesting)	ven preferential consideration. e allocated to students of the Ba- m of one place in total) will be al- and to students of the Bachelor's ECTS credits, as part of the appli- tts). Should the number of places tated to applicants from the other mber of places, there will be a uni- s of a module component that are y have successfully completed at deration. ts' previous academic achieve- hey have achieved and their ave- subject of Biologie (Biology) (ex- lication. This will be done as fol- rding to the number of ECTS cre- eved (quantitative ranking). The nd places will be allocated accor- according to the qualitative ran- Quota 1 (50 % of places): total Biology; among applicants with places): number of subject seme- ters, places will be allocated by				

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11-LMB-152-m01	Laboratory and Measurement Technology in Biophysics												
	ECTS	6	Duratior	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			V (3) +									
				-	Module taught in: German or English								
	Methoc	d of ass	essment	 a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, 									
				the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: Once a year, summer semester									
Mathematics, Theo	ory and C	Compute	er Aided N	Nethod	5								
11-SDC-152-m01	Statistics, Data Analysis and Computer Physics												
	ECTS	4	Duratior	n [1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			V (2) + R (1) Module taught in: German or English									
	Methoo	d of ass	essment	 a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: Once a year, winter semester 									
10-M-NUM1af-152-	Numeri	ical Mat	hematics	1 for st	udents of other su	bjects							
m01	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S		V (4) + Ü (2)									
	Method	d of ass	essment	a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus									

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10-M-NUM2af-152-	Numerical Mathematics 2 for students of other subjects											
m01	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		V (4) -	V (4) + Ü (2)							
	Method of assessment			a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus								
10-M-PRG-152-m01	Progra	mming o	course for	r stude	nts of Mathematics	and other subjects			_			
	ECTS	3	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Course	S		P (2)								
	Method of assessment			project in the form of programming exercises (approx. 20 to 25 hours) Language of assessment: German and/or English Assessment offered: Once a year, summer semester								
	Referre	ed to in L	.PO I	§ 22	l Nr. 3 f)			_				
10-M-COM-152-	Compu	tational	Mathem	atics								
m01	ECTS	ECTS 4 Duration		1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Course	S		V (1) + Ü (2)								
	Method of assessment			project in the form of programming exercises (approx. 20 to 25 hours) Language of assessment: German and/or English Assessment offered: Once a year, winter semester								
	Referre	ed to in L	.PO I	§ 22 II Nr. 3 f)								
11-M-F-152-m01	Mathe	matics 4	for Stud	ents of Physics and related Disciplines (Complex Analysis)								
	ECTS	8	Duration	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			V (4) + Ü (2) Module taught in: Ü: German or English								
	Method of assessment				n examination (appr lage of assessment:	ox. 120 minutes) German and/or Engl	ish					

11-T-M-152-m01	Theoretical Mechanics												
	ECTS	8	Duratior	ı	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	5			V (4) + Ü (2) Module taught in: Ü: German or English								
	Method	Method of assessment			written examination (approx. 120 minutes) Language of assessment: German and/or English								
	other p	other prerequisites			Admission prerequisite to assessment: completion of exercises (approx. 13 exercise sheets per semester). Students who successfully completed approx. 50% of exercises will qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the semester.								
	Additional Information			Registration: If a student registers for the exercises and obtains the qualification for admission to assessment, this will be considered a declaration of will to seek admission to assessment pursuant to Section 20 Subsection 3 Sentence 4 ASPO (general academic and examination regulations). If the module coordinators subsequently find that the student has obtained the qualification for admission to assessment, they will put the student's registration for assessment into effect. Only those students that meet the respective prerequisites can successfully register for an assessment. Students who did not register for an assessment or whose registration for an assessment was not put into effect will not be admitted to the respective assessment. If a student takes an assessment to which he/she has not been admitted, the grade achieved in this assessment will not be considered.									
11-T-E-152-m01	Electrodynamics												
	ECTS	8	Duratior		1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	Courses			V (4) + Ü (2) Module taught in: Ü: German or English								
	Method	Method of assessment			written examination (approx. 120 minutes) Language of assessment: German and/or English								
Applied Physics													
11-ZDR-152-m01	Principles of Two- and Three-Dimensional Röntgen Imaging												
	ECTS	6	Duratior	I	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	5		V (3) + R (1) Module taught in: German or English									
	Method	l of asse		 a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: Once a year, summer semester 									

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11-BMS-152-m01	Imagin	Imaging Methods at the Synchroton											
	ECTS	6	Duratior		1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S			V (3) + R (1) Module taught in: German or English								
				a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: Once a year, summer semester									
11-ASI-152-m01		g Sense	ors in Infra		~			<u>.</u>					
	ECTS	3	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S		V (2) Modu	V (2) Nodule taught in: German or English								
				 a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead t form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: Once a year, summer semester 									
11-EBV-152-m01		les of li	mage Proc	essin	3		-						
	ECTS	3	Duratior		1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S		V (2) Module taught in: German or English									
	Methoo	d of ass	essment	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: Once a year, winter semester									

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11-KVM-152-m01	Principles of Pattern Classification											
	ECTS	3	Duratior		1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		V (2) Modu	V (2) Module taught in: German or English							
				b) ora c) ora d) pro e) pre lf a wi form o the le Langu Asses	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: Once a year, winter semester							
11-LMT-152-m01					Technology							
	ECTS	6	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S			+ R (1) Ile taught in: Germa	an or English						
				b) ora c) ora d) pro e) pre lf a wi form o the le Langu Asses	 a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: Once a year, winter semester 							
11-LVW-152-m01			o Labview				-					
	ECTS	6	Duratior		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (1) + R (3) Module taught in: German or English								
	Metho	l of ass	essment	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: Once a year, winter semester								

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08-FU-EEW-152-	Electrochemical Energy Storage and Conversion											
m01	ECTS	5	Duration	l	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	Courses			+ P (1) + E (1)							
	Methoo	d of asse		a) assessment and b) Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical assignments (2 to 4 random examinations), weighted 7:3 Language of assessment: German and/or English Assessment offered: Once a year, summer semester								
Current Topics in N	lanostru	cutre Te	chnology									
11-BXN5-152-m01	Current Topics in Nanostructure Technology											
	ECTS	5	Duration	l	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		V (2) ·	+ R (2)							
				amination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentati- on/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English								
		rerequis		Approval from examination committee required.								
11-BXN6-152-m01		Current Topics in Nanostructure Technology										
		6	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	-		V(3) + R(1)								
	Method	d of asse		written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral ex- amination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentati- on/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English								
	other p	rerequis	sites	Appro	oval from examination	on committee require	d					

11-BXN8-152-m01	Current Topics in Nanostructure Technology												
	ECTS	8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S		V (4) ·	(4) + R(2)								
	Methoo	d of ass	essment	amina on/ta If a wi form o the le	vritten examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral ex- mination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentati- on/talk (approx. 30 minutes). f a written examination was chosen as method of assessment, this may be changed and assessment may instead take the orm of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, he lecturer must inform students about this by four weeks prior to the original examination date at the latest. anguage of assessment: German and/or English								
	other p	rerequi	sites	Appro	oval from examination	on committee require	d.						
11-BXP8-152-m01	Current	t Topics	in Physic	s									
	ECTS	8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S		V (4) ·	+ R (2)			•					
				amination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentati- on/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English									
		rerequi		Approval from examination committee required.									
11-BXP6-152-m01			in Physic	S									
	ECTS	6	Duration	r	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course			V (3) + R (1)									
			essment	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral ex- amination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentati- on/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English									
	other p	rerequi	sites	Appro	oval from examination	on committee require	d.						

11-BXP5-152-m01	Current Topics Physics												
	ECTS 5 Duration		ı	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Course	S		V (2) -	+ R (2)								
	Methoo	d of ass	essment	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral ex- amination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentati- on/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English									
	other p	rerequi	sites	Appro	val from examinati	on committee require	d.						
11-CSN6-152-m01	Selected Topics in Nanostructure Technology												
	ECTS	6	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	s		V (3) -	+ R (1)								
				amination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentati- on/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English									
	other p	rerequi	sites	Approval from examination committee required.									
11-CSF6-152-m01	Selected Topics in Solid State Physics												
	ECTS	6	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S		V (3) -	+ R (1)								
	Methoo	d of ass	essment	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral ex- amination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentati- on/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English									
	other n	rerequi	sites	Annro	val from examination	on committee require	d						

11-CSEM6-152-m01	Selecte	d Topic	s in Energ	gy and	Material Science	9			_			
	ECTS	6	Duratio	1	1 semester	Method of grading	g numerical grade	Modul level	undergraduate			
	Courses	S		V (3)	+ R (1)	•		•				
	Method of assessment			written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral ex- amination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentati- on/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English								
	other p	rerequis	sites	Appro	oval from examin	ation committee requi	red.					
11-NTP-152-m01	Novel T	Novel Transport Phenomena										
	ECTS	6	Duratio	n	1 semester	Method of gradin	g numerical grade	Modul level	undergraduate			
	Courses			V (3) + R (1) Module taught in: German or English								
				 b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English 								
Key Skills Area (20	ECTS credits)											
General Key Skills In addition to the m				dents I	may also take mo	odules offered by JMU a	as part of the pool of general	transferable skills	(ASQ).			
General Key Skills	(subject-	-specifi	c)									
11-P-VKM-152-m01	Prepara	atory Co	ourse Mat	thematics								
	ECTS	2	Duratio	n	1 semester	Method of gradin	g (not) successfully comple	ted Modul level	undergraduate			
	Courses	s		Τ(2)								
	Method of assessment			a) exercises (successful completion of approx. 50% of approx. 6 exercise sheets) or b) talk (approx. 15 minutes) Assessment offered: Once a year, winter semester								
	Referred to in LPO I			§ 22 Nr. 1 h) § 22 Nr. 2 f) § 22 Nr. 3 f)								

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11-FFI-152-m01	Fit for Industry												
	ECTS 3 Duration		n 1 semester		Method of grading	Method of grading numerical grade		undergraduate					
	Course	S		V (1) + R (1) Module taught in: German or English									
	Method	d of asso	essment	 a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: Once a year, summer semester 									
11-PMP-152-m01	Project Management in Practice												
	ECTS 3 Duratio		ı	1 semester	Method of grading	(not) successfully completed	Modul level	graduate					
	Courses			V (1) + R (1) Module taught in: German or English									
	Method of assessment			b) ora c) ora d) pro e) pre If a wr form c the le Langu	l examination of o l examination in gr ject report (approx sentation/talk (ap itten examination of an oral examination cturer must inform age of assessmen	ne candidate each (ap roups (groups of 2, ap c. 8 to 10 pages) or prox. 30 minutes). was chosen as metho tion of one candidate students about this b t: German and/or Eng	pprox. 30 minutes) or prox. 30 minutes per candidate d of assessment, this may be c each or an oral examination in y four weeks prior to the origin	hanged and ass groups. If the m al examination o					

07-SQF-BGA-152-	Biotechnology and Social Acceptance													
m01	ECTS	3	Duration	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Course	S			V (1) + S (2) Module taught in: German and/or English									
	Metho	d of asse	essment	term paper or preparing educational materials (approx. 5 to 10 pages) Language of assessment: German and/or English creditable for bonus										
		pants an of place		20 pla Shoul Stude Shoul cheloi locate degre cation availa quota form r conce least of A wait Select ments rage g cludin lows: dits (c applic ding t king o Select numb the sa sters o lot. Qu	aces. Id the number of a ents of the Bachel Id the module be r's degree subject ed to students of t es subjects Compu- n-oriented subject able in one quota a. Should there be regulation for the erned will be alloc one other module ting list will be ma tion process grou s. For this purpose grade of all assess ing Chemie (Chemi First, applicants v qualitative ranking cants' position in to this third ranking cants position in to the third ranking cante number of EC of the respective a uota 3 (25 % of pl Id the module be	lor's degree subject Biolo used in other subjects, it t Biologie (Biology) with the Bachelor's degree su utational Mathematics a t Biology (as well as pote exceed the number of a e, within one module cor courses of one module of cated in the same proced e component of the resp aintained and places re- p 1 (95%): Places will pr e, applicants will be ran sments taken during the istry), Physik (Physics), I will be ranked, firstly, ac g) and, secondly, accord a third ranking will be ca ng. Among applicants wi t. p 2 (5%): Places will be salready achieved in mo CTS credits achieved, pla applicant; among applicants laces): lottery.	there will be two quotas: 95% 180 ECTS credits and 5% of p ubject Biologie (Biology) with and Mathematik (Mathematic centially to students of other 'i upplications, the remaining pl mponent, several courses wit component. In this case, place dure. In this procedure, appli- pective module will be given p -allocated as they become av- rimarily be allocated accordin ked according to the number eir studies or of all module co Mathematik (Mathematics)) a ccording to their total number of E alculated as the sum of these ith the same ranking, places of allocated according to the fo odules/module components of acces will be allocated by lot. O cants with the same number of or's degree subject Biologie (credits will be giv 6 of places will be places (a minimu 6 oe ECTS credits ss), each with 180 importing' subject laces will be alloc the a restricted num ces on all courses cants who alread preferential consider allable. Ing to the applicant of ECTS credits to the applicant of ECTS credits achieved to the time of applicant to the time of applicant construction of applicant of ECTS credits achieved to the time of applicant to the time of applicant of ECTS credits achieved to the time of applicant to the time of applicant of the faculty of E Quota 2 (25 % of of subject semes)	ven preferential consideration. e allocated to students of the Ba- im of one place in total) will be al- and to students of the Bachelor's o ECTS credits, as part of the appli- cts). Should the number of places cated to applicants from the other mber of places, there will be a uni- s of a module component that are dy have successfully completed at					

11-NASQ5-152-m01	Genera	l Comp	etences fo	or Stud	lents of Nanostru	cture Technology					
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S	•	V (2) ·	+ R (2)		•	-			
			essment	 a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes) If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English 							
	other p	rerequi	sites	-	-	tion committee require					
Subject-specific Ke	ey Skills	(15 ECT	S credits)								
11-M-MR-152-m01	Mathe	matical	Methods	of Physics							
	ECTS	6	Duratio	n	2 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Courses			V (2) + Ü (1) + V (2) + Ü (1) Module taught in: German or English							
	Method	d of ass	essment	a) exercises (successful completion of approx. 50% of approx. 13 exercise sheets) or b) talk (approx. 15 minutes)							
	Referred to in LPO I			§ 53 Nr. 1 a) § 77 Nr. 1 a)							
11-N-HS-152-m01	Semina	ar Nano	structure	Technology							
	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		S (2) Module taught in: German or English							
	Method	d of ass	essment	a) talk (30 to 45 minutes) with discussion and b) written examination (approx. 120 minutes)							
	other p	rerequi	sites	Admission prerequisite to assessment: regular attendance (minimum 85% of sessions).							
	Additional Information			Registration: If a student registers for the exercises and obtains the qualification for admission to assessment, this will be considered a declaration of will to seek admission to assessment pursuant to Section 20 Subsection 3 Sentence 4 ASPO (general academic and examination regulations). If the module coordinators subsequently find that the student has obtained the qualification for admission to assessment, they will put the student's registration for assessment into effect. Only those students that meet the respective prerequisites can successfully register for an assessment. Students who did not register for an assessment or whose registration for an assessment was not put into effect will not be admitted to the respective assessment. If a student takes an assessment to which he/she has not been admitted, the grade achieved in this assessment will not be considered.							

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11-P-FR1-152-m01	Data and Error Analysis											
	ECTS	2	Duratior	า	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses	5		V (1) + Ü (1) Module taught in: Ü: German or English								
	Method of assessment			written examination (approx. 120 minutes) Language of assessment: German and/or English								
	other prerequisites			Admission prerequisite to assessment: completion of exercises (approx. 13 exercise sheets per semester). Students who successfully completed approx. 50% of exercises will qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the semester.								
	Additional Information			Registration: If a student registers for the exercises and obtains the qualification for admission to assessment, this will be considered a declaration of will to seek admission to assessment pursuant to Section 20 Subsection 3 Sentence 4 ASPO (general academic and examination regulations). If the module coordinators subsequently find that the student has obtained the qualification for admission to assessment, they will put the student's registration for assessment into effect. Only those students that meet the respective prerequisites can successfully register for an assessment. Students who did not register for an assessment or whose registration for an assessment was not put into effect will not be admitted to the respective assessment. If a student takes an assessment to which he/she has not been admitted, the grade achieved in this assessment will not be considered.								
	Referred to in LPO I			§ 53 Nr. 1 c) § 77 Nr. 1 d)								
11-P-FR2-152-m01	Advanced and Computational Data Analysis											
	ECTS	2	Duration	۱	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses			$V(1) + \ddot{U}(1)$								
	Method of assessment			Exercises (successful completion of approx. 50% of approx. 10 exercise sheets) Assessment offered: Once a year, summer semester								
	other pr	rerequis	sites	Students are highly recommended to complete module 11-P-FR1 prior to completing module 11-P-FR2.								
Thesis (10 ECTS cro	edits)											
11-BA-N-152-m01	Bachelo	or Thesi	is Nanost	ructure Technology								
	ECTS 10 Duratio		Duratior	۱	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	5		No courses assigned to module								
	Method of assessment			Bachelor's thesis (approx. 25 pages) Language of assessment: German or English								
	Additio	nal Info	rmation	Time to complete: 12 weeks.								