

Responsible: Faculty of Physics and Astronomy



Annex SFB

Studienfachbeschreibung (subject description, SFB) for the subject Physics as a minor in a Bachelor's degree programme (60 ECTS credits)

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Abbreviations used:	Course types: \mathbf{E} = field trip, \mathbf{K} = colloquium, \mathbf{O} = conversatorium, \mathbf{P} = placement/lab course, \mathbf{R} = project, \mathbf{S} = seminar, \mathbf{T} = tutorial, $\mathbf{\ddot{U}}$ = 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)
Conventions for the modules in this SFB:	Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not cre- ditable for bonus.
Information on assessment procedures:	Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the me- 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.

Examination regulations version: 2010

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

ASP02009

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

19-Jan-2011 (2011-8)

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		Durati	on	(in semesters)	Method of grading		Module level		
	Courses				cified in the form X	(y) with course type 2	K abbreviated as specified abo	ove and number of we	ekly contact hours y	
	Method of assessment									
	Only after successful completion of			if applica	ble					
Other prerequisites				if applicable						
	Participants and allocati- on of places		locati-	if applicable						
	Additional in	nformat	tion	if applica	ble					
	Referred to in	n LPO I		if applica	ble (examination re	gulations for teachin	g-degree programmes)			

Compulsory Course	es (40 EC	TS cred	l its) In mandat	0.00							
40 ECTS creates mus	st be ac	nieved i	n manual		ilses.				- -		
11-KP-092-m01	Classic	al Phys	ics (Mech	anics,	Thermodynamics, W	laves, Oscillations, I	Electricity, Magn	etism and Opt	ics)		
	ECTS	16	Duration	ı l	2 semester	Method of grading	numerical grade	2	Modul level	undergraduate	
	Course	S	occmont	Klassische Physik 1 (Mechanik, Wellen, Wärme) (Classical Physics 1 (Mechanics, Waves, Heat)): V (4 weekly contact hours) + Ü (2 weekly contact hours), once a year (winter semester) Klassische Physik 2 (Elektromagnetismus, Optik) (Classical Physics 2 (Electromagnetism, Optics)): V (4 weekly contact hours) + Ü (2 weekly contact hours), once a year (summer semester)							
	Method of assessmentThis module has the following assessment components1. Topics covered in lectures and exercises in part 1 (Klassische Physik 1 (Classical Physics 1)): written examination (approx. 120 minutes).2. Topics covered in lectures and exercises in part 2 (Klassische Physik 2 (Classical Physics 2)): written examination (approx. 120 minutes).3. Topics covered in lectures and exercises in parts 1 and 2: oral examination of one candidate each (approx. 30 minutes).3. Topics covered in lectures and exercises in parts 1 and 2: oral examination of one candidate each (approx. 30 minutes, usually chosen) or written examination (approx. 120 minutes).Assessment component 3 will be offered in German; English if agreed upon with examiner(s). Successful completion of approx. 50% of practice work each is a prerequisite for admission to assessment components 1 and 2. To qualify for admission to assessment component 3, students must pass assessment component 1 and/or 2. Students are highly recommended to attend both courses Klassische Physik 1 (Classical Physics 1) and Klassische Physik 2 (Classical Physics 2). The topics discussed in these two courses will be covered in assessment component 3. Students must register for assessment components 1 through 3 online (details to be announced). To pass this module, students must first pass assessment component 1 or 2 and must then pass assessment component 3.										
	other p	rerequi	sites	Bridge	course Mathematis	sche Rechenmethode	en der Physik (Ma	athematical Me	ethods of Physic	cs) for first-semester students.	

11-TQM-092-m01	Theoretical M	lechanics a	and Qu	antum Mechanics						
	ECTS 16	Duratio	n	2 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		Theor	etische Mechanik (1	Theoretical Mechanics): V (4 weekly contact hours) +	Ü (2 weekly co	ntact hours), once a year (winter		
			semester)							
			quant	r) er)	tum Mechanics): v (4	weekly contact hours) + 0 (2 w	eekly contact n	ours), once a year (summer se-		
	Method of as	sessment	This module has the following assessment components							
		Sessment	1. Topics covered in lectures and exercises in part 1 (Theoretische Mechanik (Theoretical Mechanics)): written examination (approx, 120 minutes).							
			2. Top 120	2. Topics covered in lectures and exercises in part 2 (Quantenmechanik (Quantum Mechanics)): written examination (approx.						
			3. Top usu	ics covered in lectu Ially chosen) or writ	res and exercises in p ten examination (app	arts 1 and 2: oral examination ox. 120 minutes).	of one candidat	te each (approx. 30 minutes,		
			Succe 2.	essful completion of	approx. 50% of pract	ice work each is a prerequisite	for admission t	o assessment components 1 and		
			To qua highly	alify for admission t / recommended to a	o assessment compo ttend both courses Th	nent 3, students must pass ass leoretische Mechanik (Theoret	sessment comp ical Mechanics)	onent 1 and/or 2. Students are and Quantenmechanik (Quan-		
			tum IV Stude	um Mechanics). The topics discussed in these two courses will be covered in assessment component 3.						
			To pas	To pass this module, students must first pass assessment component 1 or 2 and must then pass assessment component 3.						
			The grade achieved in assessment component 1 or 2 (whichever is better) and the grade achieved in assessment component 3 will each count 50% towards the overall grade awarded for the module.							
	other prerequ	lisites	10-M1	-PHY, 10-M2-PHY ar	nd 11-MPI-3 or 10-M1-N	IST, 10-M2-NST and MPI-3				
11-P-PB-NF-092-	Basic Practica	al Course E	3 (Minor Studies)							
m01	ECTS 3	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Courses		Klassische Physik (Classical Physics, KLP): P (2 weekly contact hours) Elektrizitätslehre und Schaltungen (Electricity and Circuits, ELS): P (2 weekly contact hours)							
	Method of ass	sessment	This n	nodule has the follo a) Preparing, perfo is passed. b) Talk ((approx, 20 minute	wing assessment con rming and evaluating (with discussion) to te	ponents the experiments will be consid st the students' understanding	ered successful g of the physics	lly completed if a Testat (exam) -related contents of the course		
			(approx. 30 minutes). Students must register for assessment online (registration deadline to be announced). Students will be offered one opportunity to retake element a) and/or element b). To pass an assessment component, stu-							
			To pass this module, students must successfully complete one out of the two courses.							
	Modules succ completed	cessfully	11-P-PA							
	Referred to in	LPO I	§ 53 (1) 1. a) Physik Mechanik, Wärmelehre, Elektrizitätslehre, Optik, der speziellen Relativitätstheorie § 53 (1) 1. c) Physik physikalische Grundpraktika § 77 (1) 1. d) Physik "physikalische Praktika"							

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11-P-PA-092-m01	Practic	al Cours	se A							
	ECTS	5	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate	
	Courses			Auswertung von Messungen und Fehlerrechnung (Measurements and Data Analysis): V (1 weekly contact hour) + Ü (1 weekly contact hour), once a year (winter semester) Beispiele aus Mechanik, Wärmelehre und Elektrik (Examples from Mechanics, Thermodynamics and Electricity, BAM): P (2 weekly contact hours)						
	Method of assessment			 This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 120 minutes) 2. Lab course: a) Preparing, performing and evaluating the experiments will be considered successfully completed if a Testat (exam) is passed. b) Talk (with discussion) to test the students' understanding of the physics-related contents of the course (approx. 30 minutes). 						
				Successful completion of approx. 50% of practice work is a prerequisite for admission to assessment component 1. To pass assessment component 2, students must pass both elements a) and b). Students will be offered one opportunity to retake element a) and/or element b). Students must register for assessment components 1 and 2 online (details to be announced). Students must attend Auswertung von Messungen und Fehlerrechnung (Measurements and Data Analysis) before attending Beispiele aus Mechanik, Wärmelehre und Elektrik (Examples from Mechanics, Thermodynamics and Electricity). To pass this module, students must pass both assessment component 1 and assessment component 2.						
	Referred to in LPO I			§ 53 (1) 1. a) Physik Mechanik, Wärmelehre, Elektrizitätslehre, Optik, der speziellen Relativitätstheorie § 53 (1) 1. c) Physik physikalische Grundpraktika § 77 (1) 1. d) Physik "physikalische Praktika"						
Compulsory Electiv	ves (20 E	ECTS cre	dits)							
11-A3-072-m01	Labora	tory and	d Measure	ement	Technology					
	ECTS	6	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Course	S		V + Ü	(no information on	SWS (weekly contact	hours) and course language a	available)		
	Metho	d of ass	essment	written examination (approx. 120 minutes)						
	other prerequisites			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-						

Participants and allo- cation of places	Only as part of pool of general key skills (ASQ): 15 places. Places will be allocated by lot.
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11-A4-072-m01	Astro	Astrophysics									
	ECTS	6	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Cours	es		V + S	, (no information on S	SWS (weekly contact hours) and course lang	guage available)				
	Metho	od of ass	essment	written examination (approx. 120 minutes)							
	other	prerequi	sites	Admission prerequisite to assessment: successful completion of approx. 50% of exercises. Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.							
	Partic cation	ipants an of place	nd allo- es	Only a	as part of pool of ger	neral key skills (ASQ): 15 places. Places will	be allocated by lot.				
11-KM-092-m01	Conde	ensed Ma	atter (Qua	nta, At	oms, Molecules, So	lid State Physics)					
	ECTS	16	Duratio	n	2 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses			hours) + Ü (2 weekly contact hours), once a year (winter semester) Kondensierte Materie 2 (Festkörperphysik 1) (Condensed Matter 2 (Solid State Physics)): V (4 weekly contact hours) + Ü (2 weekly contact hours), once a year (summer semester)							
	Metho	od of ass	essment	1. Top pro 2. Top pro 3. Top usu Asses Succe 2. To qu highly dense Stude	nodule has the follo vics covered in lectur x. 120 minutes). vics covered in lectur x. 120 minutes). vics covered in lectur vally chosen) or writt ssment component 3 vissful completion of alify for admission to v recommended to a ed Matter 2). The top ents must register for	wing assessment components res and exercises in part 1 (Kondensierte Ma res and exercises in part 2 (Kondensierte Ma res and exercises in parts 1 and 2: oral exan ten examination (approx. 120 minutes). will be offered in German; English if agreed approx. 50% of practice work each is a prer o assessment component 3, students must ttend both courses Kondensierte Materie 1 ics discussed in these two courses will be o r assessment components 1 through 3 onlin	aterie 1 (Condensed Ma aterie 2 (Condensed Ma nination of one candida d upon with examiner(s requisite for admission pass assessment comp (Condensed Matter 1) a covered in assessment ne (details to be annour	atter 1)): written examination (ap- atter 2)): written examination (ap- ate each (approx. 30 minutes,). to assessment components 1 and ponent 1 and/or 2. Students are nd Kondensierte Materie 2 (Con- component 3. need).			
				To pass this module, students must first pass assessment component 1 or 2 and must then pass assessment component 3. The grade achieved in assessment component 1 or 2 (whichever is better) and the grade achieved in assessment component 3 will each count 50% towards the overall grade awarded for the module.							

11-KET-092-m01	Nuclear and Elementary Particle Physics										
	ECTS 4	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V + Ü	(no information on S	SWS (weekly contact	hours) and course language	e available)				
	Method of	assessment	writter specif	written examination (approx. 120 minutes, for modules with less than 4 ECTS credits approx. 90 minutes; unless otherwise specified)							
	other prere	equisites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.								
11-STE-092-m01	Statistical	Mechanics,	Thermo	dynamics and Elect	rodynamics						
	ECTS 16	Duratio	n	2 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses Method of	assessment	Statisi week! Theoro year (s This m 1. Top The 2. Top ami 3. Top usu Asses Succe 2. Stude and Th course Stude To pas The gr	tische Mechanik un y contact hours), or etische Elektrodyna summer semester) nodule has the follo ics covered in lectu rmodynamics)): wri ics covered in lectu nation (approx. 120 ics covered in lectu ally chosen) or writt sment component g ssful completion of nts are highly recon nermodynamics) an es will be covered ir nts must register fo ss this module, stud ade achieved in ass	d Thermodynamik (S ace a year (winter ser mik (Theoretical Elec wing assessment co res and exercises in tten examination (ap res and exercises in o minutes). res and exercises in ten examination (ap 3 will be offered in Go approx. 50% of prace nmended to attend be d Theoretische Elekt n assessment compore r assessment compore dents must first pass sessment component	otatistical Mechanics and The nester) ctrodynamics): V (4 weekly c mponents part 1 (Statistische Mechani oprox. 120 minutes). part 2 (Theoretische Elektroo parts 1 and 2: oral examinat orox. 120 minutes). erman; English if agreed upo ctice work each is a prerequis ooth courses Statistische Me rodynamik (Theoretical Elect onent 3. onents 1 through 3 online (de assessment component 1 o t 1 or 2 (whichever is better)	ermodynamics): V ontact hours) + Ü (: k und Thermodyna dynamik (Theoretic ion of one candida n with examiner(s) site for admission t chanik und Thermo trodynamics). The t etails to be announ r 2 and must then p and the grade ach	(4 weekly contact hours) + U (2 2 weekly contact hours), once a mik (Statistical Mechanics and al Electrodynamics)): written ex- te each (approx. 30 minutes, to assessment components 1 and odynamik (Statistical Mechanics copics discussed in these two ced). bass assessment component 3. ieved in assessment component 3.			
	other prere	equisites	10-M1	-PHY and 10-M2-PH	Y or 10-M1-NST and a	IO-M2-NST					

11-A2-092-m01	Electronics									
	ECTS 6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V + Ü	(no information on	SWS (weekly contact	S (weekly contact hours) and course language available)				
	Method of a	ssessment	written examination (approx. 90 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be an- nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009.							
	other prerec	quisites	Certai tive d on to the le sessn ficatio	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.						
	Participants cation of pla	and allo- aces	Only a	as part of pool of ge	neral key skills (ASQ): 15 places. Places will be alloo	cated by lot.			
11-HS-092-m01	Advanced S	eminar Expe	eriment	al/Theoretical Phys	sics	1				
	ECTS 4	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		S (no	information on SWS	6 (weekly contact ho	urs) and course language availa	able)			
	Method of assessment ta As no 20			talk (approx. 30 to 45 minutes) with discussion Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be an- nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009.						
	other prerec	luisites	Admis	ssion prerequisite to	assessment: regula	r attendance and successful p	reparation of se	minar presentation.		
11-P-MR-092-m01	Mathematic	al Methods	of Physics							
	ECTS 6	Duratio	n	2 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Courses		Mathe year (Mathe year (Mathematische Rechenmethoden 1 (Mathematical Methods 1): V (2 weekly contact hours) + Ü (1 weekly contact hour), once a year (winter semester) Mathematische Rechenmethoden 2 (Mathematical Methods 2): V (2 weekly contact hours) + Ü (1 weekly contact hour), once a year (summer semester)						
	Method of a	ssessment	This n 1. Top or t 2. Top ses	nodule has the follo ics covered in lectu alk (approx. 15 minu ics covered in lectu or talk (approx. 15	wing assessment co res and exercises in utes, usually chosen res and exercises in minutes, usually cho	mponents part 1 (Mathematische Rechen) or written examination (appro part 2 (Mathematische Rechen sen) or written examination (ap	methoden 1 (Ma x. 60 minutes) methoden 2 (Ma oprox. 60 minute	nthematical Methods 1)): exercises athematical Methods 2)): exerci- es)		
			Successful completion of approx. 50% of practice work each is a prerequisite for admission to assessment components 1 and 2. Students must register for assessment components 1 and 2 online (details to be announced). To pass this module, students must pass both assessment component 1 and assessment component 2.							
	Referred to i	in LPO I	§ 53 (1) 1. a) Physik Mechanik, Wärmelehre, Elektrizitätslehre, Optik, der speziellen Relativitätstheorie § 77 (1) 1. a) Physik "Grundlagen der Experimentalphysik"							

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11-A1-092-m01	Computational Physics										
	ECTS 6	Duratio	า	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 asse	essment	written examination (approx. 120 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be an- nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009.								
	other prerequisites		Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.								
	Participants an cation of places	d allo- s	Only a	as part of pool of ge	neral key skills (ASQ): 15 places. Places w	ill be allocated by lot.					
11-EIN-092-m01	Introduction to Nanoscience										
	ECTS 6	Duration	1	2 semester	Method of grading numerical grade	Modul level	undergraduate				
	Courses		V + S	(no information on S	SWS (weekly contact hours) and course la	nguage available)					
	Method of asse	essment	written examination (approx. 120 minutes, for modules with less than 4 ECTS credits approx. 90 minutes; unless otherwise specified)								
	other prerequisites		Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.								
	Participants and allo- cation of places		Only as part of pool of general key skills (ASQ): 15 places. Places will be allocated by lot.								
11-FON-092-m01	Advanced Nano Sciences										
	ECTS 6	Duratio	1	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Courses		V + S	(no information on s	SWS (weekly contact hours) and course la	nguage available)					
	Method of asse	essment	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 20 minutes) or oral ex- amination in groups (groups of 2, approx. 30 minutes)								
	Modules succe completed	ssfully	11-EIN								
	other prerequis	ites	Certai tive d on to the le sessn ficatio	n prerequisites must etails at the beginn assessment. If stud cturer will put their nent in the current o on for admission to	nust be met to qualify for admission to assessment. The lecturer will inform students about the respec- nning of the course. Registration for the course will be considered a declaration of will to seek admissi- udents have obtained the qualification for admission to assessment over the course of the semester, eir registration for assessment into effect. Students who meet all prerequisites will be admitted to as- it or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- to assessment anew.						
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11-N2-092-m01	Principles of Electronics (with Practical Course)									
	ECTS	6	Duration	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses			V + P (no information on SWS (weekly contact hours) and course language available)						
	Method	d of asse	essment	written examination (approx. 90 minutes)						
				Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be an- nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009.						
	other prerequisites			Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.						
	Participants and allo- cation of places			Only as part of pool of general key skills (ASQ): 15 places. Places will be allocated by lot.						
11-ED-092-m01	Theoretical Electrodynamics									
	ECTS	8	Duration	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 available)						
	Method of assessment			written examination (approx. 120 minutes, for modules with less than 4 ECTS credits approx. 90 minutes; unless otherwise specified) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009.						
	other prerequisites			Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.						

11-FKP-092-m01	Solid State Physics 1										
	ECTS 8	Duratior	1	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 asse	essment	written examination (approx. 120 minutes, for modules with less than 4 ECTS credits approx. 90 minutes; unless otherwise specified) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009.								
	other prerequis	sites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.								
11-TM-092-m01	Theoretical Mechanics										
	ECTS 8	Duratior	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V + Ü	(no information on S	SWS (weekly contact	hours) and course language	available)				
	Method of asse	essment	specified) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be an- nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009.								
	other prerequisites		Certain prerequisites must be met to quality for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.								
11-QAM-092-m01	Quanta, Atoms, Molecules										
	ECTS 8 Duratio		1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		Ü + Ü (no information on SWS (weekly contact hours) and course language available)								
	Method of assessment		written examination (approx. 120 minutes, for modules with less than 4 ECTS credits approx. 90 minutes; unless otherwise specified) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be an- nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009.								
	other prerequisites		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.								
minor in a Bachelor's deg	ree programme Physic	CS (2010)				JMU Würzburg • generated 26-Aug	-2024 • exam. reg. data r	ecord B1 128 - - N 2010 page 11 / 12			

11-QM-092-m01	Quantum Mechanics									
	ECTS	8	Duratio	1 I	1 semester	Method of grading nume	erical grade	Modul level	undergraduate	
	Course	S		V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment			written examination (approx. 120 minutes, for modules with less than 4 ECTS credits approx. 90 minutes; unless otherwise						
				specified)						
				Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be an-						
				2009.						
	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 an any						
11-ST-002-m01	Statisti	ical Mer	hanics a	nd Thermodynamics						
11 51 092 1101	FCTS 8 Duration			nu me	1 semester	Method of grading nume	rical grade	Modul level	undergraduate	
	Courses			V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Methor		essment	written examination (approx, 120 minutes, for modules with less than μ FCTS credits approx, 90 minutes; unless otherwise						
				specified)						
				Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be an- nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009.						
	other prerequisites (t t			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.						