

Responsible: Faculty of Physics and Astronomy



Annex SFB

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

Responsible. Fuculty	
Abbreviations used:	Course types: E = field trip, K = colloquium, O = conversatorium, P = placement/lab course, R = project, S = seminar, T = tutorial, Ü = exercise, V = lecture
	Term: SS = summer semester, WS = winter semester
	Methods of grading: NUM = numerical grade, B/NB = (not) successfully completed
	Regulations: (L)ASPO = general academic and examination regulations (for teaching-degree programmes), FSB = subject-specific provisions, SFB = list of modules
	Other: A = thesis, LV = course(s), PL = assessment(s), TN = participants, VL = prerequisite(s)
Conventions for the 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: 2012

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)):

21-Mar-2012 (2012-37) except for mandatory electives added in Fast Track procedure at a later time

04-Nov-2014 (2014-69)

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	D	uration	(in semesters)	Method of grading	Module level				
	Courses		To be spe	o be specified in the form X (y) with course type X abbreviated as specified above and number of weekly contact hours y						
	Method of as	ssessmer	nt							
	Only after su completion of		if applica	applicable						
	Other prereq	uisites	if applica	if applicable						
	Participants and allocati- on of places		ati- if applica	ble						
	Additional in	formatio	n if applica	if applicable						
	Referred to in	n LPO I	if applica	ble (examination r	regulations for teaching	g-degree programmes)				

Compulsory Cours	es (123 ECTS cr	redits)						
Experimental Phys	sics (38 ECTS cr	redits)						
11-KP-092-m01	Classical Phy	sics (Mechanic	s, Thermodynamics, V	Vaves, Oscillations, Electricity, Magnetism a	nd Optics)			
	ECTS 16	Duration	2 semester	Method of grading numerical grade	Modul level	undergraduate		
	Courses	(2 v Klas	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 as	1. T 1 2. T	 This module has the following assessment components 1. 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. 					
		3. T	120 minutes). 3. Topics covered in lectures and exercises in parts 1 and 2: oral examination of one candidate each (approx. 30 minutes, usually chosen) or written examination (approx. 120 minutes).					
				will be offered in German; English if agreed u approx. 50% of practice work each is a prerec				
		To c hig sics	nly recommended to a 2). The topics discuss	o assessment component 3, students must pa ttend both courses Klassische Physik 1 (Class sed in these two courses will be covered in as r assessment components 1 through 3 online	sical Physics 1) and Kla ssessment component	assische Physik 2 (Classical Phy- t 3.		
		To p The	bass this module, stud grade achieved in ass	ents must first pass assessment component ressment component 1 or 2 (whichever is bett rds the overall grade awarded for the module	1 or 2 and must then p ter) and the grade achi	pass assessment component 3.		
	other prerequ	isites Brid	ge course Mathematis	sche Rechenmethoden der Physik (Mathemat	ical Methods of Physic	cs) for first-semester students.		

11-KM-092-m01	Conde	nsed Ma	atter (Qua	nta, Ato	oms, Molecules,	Solid State Physics)					
	ECTS	16	Duration	ı	2 semester	Method of grading numerical grade		Modul level	undergraduate		
	Course	<u>.</u> S		hours) Konde	Kondensierte Materie 1 (Quanten, Atome, Moleküle) (Condensed Matter 1 (Quanta, Atoms, Molecules)): V (4 weekly contact 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	d of ass	essment	1. Topi prox 2. Topi prox 3. Topi	ics covered in lec x. 120 minutes). ics covered in lec x. 120 minutes). ics covered in lec	ollowing assessment components ctures and exercises in part 1 (Kondensierte ctures and exercises in part 2 (Kondensierte ctures and exercises in parts 1 and 2: oral e vritten examination (approx. 120 minutes).	e Materie 2 ((Condensed Ma	tter 2)): written examination (ap-		
				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 Kondensierte Materie 1 (Condensed Matter 1) and Kondensierte Materie 2 (Condensed Matter 2). The topics discussed in these two courses will be covered in assessment component 3. 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. The grade achieved in assessment component 1 or 2 (whichever is better) and the grade achieved in assessment component will each count 50% towards the overall grade awarded for the module.							
11-KET-122-m01	Nuclea	r and El	ementary	Particl	le Physics						
	ECTS	6	Duration	1 I	1 semester	Method of grading numerical grade		Modul level	undergraduate		
	Course	!S		V + Ü ((no information o	on SWS (weekly contact hours) and course l	language av	ailable)			
	Metho	d of ass	essment	writter	n examination (a	pprox. 120 minutes)					
	other prerequisites			tive de on to a the lea sessm	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the 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.						

Theoretical Physics (32 ECTS credits)

For students interested in participating in the FOKUS programme, module 11-TQM-F will replace module 11-TQM. Module component 11-TQM-F-2, which will prepare students for studying in the Master's programme FOKUS Physik (FOKUS Physics), will be offered in the form of a block course between the lecture periods of the winter and summer semesters (for students who took up studies in winter semester, block course will be offered between third and fourth subject semester).

11-STE-092-m01	Statist	ical Me	chanics, T	hermo	dynamics and Elect	rodynamics			
	ECTS	16	Duratior	า	2 semester	Method of grading	numerical grade	Modul level	undergraduate
	Course	S		weekly Theore	y contact hours), on	ce a year (winter ser	nester)		(4 weekly contact hours) + Ü (2 2 weekly contact hours), once a
	Methoo	d of ass		1. Topi Thei 2. Topi amii 3. Topi	ics covered in lectur rmodynamics)): writ ics covered in lectur nation (approx. 120 ics covered in lectur	ten examination (ap res and exercises in minutes).	part 1 (Statistische Mechanik ur prox. 120 minutes). part 2 (Theoretische Elektrodyn parts 1 and 2: oral examination	amik (Theoretic	mik (Statistical Mechanics and al Electrodynamics)): written ex- te each (approx. 30 minutes,
	Assessment component 3 will be offered in Germ Successful completion of approx. 50% of practice 2. Students are highly recommended to attend both and Thermodynamics) and Theoretische Elektrod courses will be covered in assessment componen Students must register for assessment componen To pass this module, students must first pass ass The grade achieved in assessment component 1 will each count 50% towards the overall grade av						tice work each is a prerequisite oth courses Statistische Mecha rodynamik (Theoretical Electrod nent 3. nents 1 through 3 online (detail assessment component 1 or 2 a t 1 or 2 (whichever is better) and	for admission f nik und Thermo lynamics). The f ls to be announ and must then p	to assessment components 1 and odynamik (Statistical Mechanics topics discussed in these two ced). pass assessment component 3.
	other p	rerequi	sites	10-M1-	PHY and 10-M2-PH	(or 10-M1-NST and 1	o-M2-NST		

11-TQM-092-m01	Theore	tical Me	chanics a	and Quantum Mechanics	nd Quantum Mechanics						
	ECTS	16	Duratio	2 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		Theoretische Mechanik	(Theoretical Mechanic	s): V (4 weekly contact ho	ours) + Ü (2 weekly cor	ntact hours), once a year (winter			
				semester)			* /				
				Quantenmechanik (Qua mester)	Quantenmechanik (Quantum Mechanics): V (4 weekly contact hours) + Ü (2 weekly contact hours), once a year (summer se- mester)						
	Method	d of ass	essment	This module has the fo	llowing assessment cor	nponents					
				1. Topics covered in lec (approx. 120 minutes		oart 1 (Theoretische Mech	nanik (Theoretical Mec	hanics)): written examination			
				2. Topics covered in lec 120 minutes).	tures and exercises in p	oart 2 (Quantenmechanik	(Quantum Mechanics	5)): written examination (approx.			
					tures and exercises in p ritten examination (app		nation of one candidat	e each (approx. 30 minutes,			
				Successful completion 2.	of approx. 50% of prac	tice work each is a prereq	quisite for admission t	o assessment components 1 and			
				highly recommended to tum Mechanics). The to	attend both courses T pics discussed in these		heoretical Mechanics) ered in assessment co				
				To pass this module, st The grade achieved in a	udents must first pass assessment component	assessment component 1	1 or 2 and must then p er) and the grade achi	ass assessment component 3. eved in assessment component 3			
	other p	rerequi	sites	10-M1-PHY, 10-M2-PHY	and 11-MPI-3 or 10-M1-I	NST, 10-M2-NST and MPI-	3				

11-TQM-F-092-m01	Theore	etical Me	chanics a	nd Quantum Mechanic	s for FOKUS Students					
	ECTS	16	Duratior	2 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	25		semester) Quantenmechanik für	OKUS-Studierende (Qu	antum Mechanics for FOKUS S	Students): V (4 v	ontact hours), once a year (winter veekly contact hours) + Ü (2 wee- eak between summer and winter		
	Metho	d of asse	essment	 Topics covered in lea (approx. 120 minute Topics covered in lea KUS Students)): writ Topics covered in lea usually chosen) or w Successful completion To qualify for admission highly recommended t KUS-Studierende (Qua sessment component) 	 This module has the following assessment components Topics covered in lectures and exercises in part 1 (Theoretische Mechanik (Theoretical Mechanics)): written ex (approx. 120 minutes). Topics covered in lectures and exercises in part 2 (Quantenmechanik für FOKUS-Studierende (Quantum Mech KUS Students)): written examination (approx. 120 minutes). Topics covered in lectures and exercises in parts 1 and 2: oral examination of one candidate each (approx. 30 usually chosen) or written examination (approx. 120 minutes). 					
				To pass this module, s The grade achieved in will each count 50% to	udents must first pass assessment componen wards the overall grade	t 1 or 2 (whichever is better) ar awarded for the module.	and must then nd the grade ach	nced). pass assessment component 3. nieved in assessment component 3		
	Module comple	es succe eted	essfully	10-M-PHY1 and 10-M-P	HY2 or 10-M-NST1 and 1	.o-M-NST2 and 11-TQM-1, 11-KF				
	Additio	onal Info	rmation			ter's degree programme must t tead of Quantenmechanik (Qu		chanik für FOKUS-Studierende cs).		

1-P-PA-112-m01	Lab Co	urse A										
	ECTS	5	Duratio	n	1 semester	Method of grading	g (not) successfully	completed	Modul level	undergraduate		
	Course	S	. <u>.</u>	conta Beisp	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)							
	Methoo	d of ass	essment	1. Top 2. Lab (ex. (ap Succe To pa retake Stude Beisp	his module has the following assessment components Topics covered in lectures and exercises: written examination (approx. 120 minutes) 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). Accessful completion of approx. 50% of practice work is a prerequisite for admission to assessment component 1. Pass assessment component 2, students must pass both elements a) and b). Students will be offered one opportunity to take element a) and/or element b). Udents must register for assessment components 1 and 2 online (details to be announced). Udents must attend Auswertung von Messungen und Fehlerrechnung (Measurements and Data Analysis) before attending eispiele aus Mechanik, Wärmelehre und Elektrik (Examples from Mechanics, Thermodynamics and Electricity).							
	Referre	d to in I	LPO I	§ 53 (§ 53 (§ 77 (To pass this module, students must pass both assessment component 1 and assessment component 2. § 53 (1) 1. a) Physik Mechanik, Wärmelehre, Elektrizitätslehre, Optik, der speziellen Relativitätstheorie § 53 (1) 1. c) Physik physikalische Grundpraktika § 77 (1) 1. a) Physik "Grundlagen der Experimentalphysik" § 77 (1) 1. d) Physik "physikalische Praktika"							
11-P-PB-122-m01	Labora	tory Co	urse Phys									
	ECTS	8	Duratio	n	1 semester	Method of grading	g (not) successfully	completed	Modul level	undergraduate		
	Course	S	_			assical Physics, KLP): P Schaltungen (Electricit			contact hours)			
	Method of assessment		 thod of assessment This module has the following assessment components 1. Lab course in part 1: a) Preparing, performing and evaluating the experiments will be considered successfully completed Testat (exam) is passed. b) Talk (with discussion) to test the students' understanding of the physics-related contents of the course (approx. 30 minutes). 2. Lab course in part 2: a) Preparing, performing and evaluating the experiments will be considered successfully completed 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). 2. Lab course in part 2: a) Preparing, performing and evaluating the experiments will be considered successfully completed 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). 							ontents of the completed if		
	Module			Stude must To pa	Students must register for assessment components 1 and 2 online (registration deadline to be announced). Students will be offered one opportunity to retake element a) and/or element b). To pass an assessment component, they must pass both elements a) and b). To pass this module, students must pass both assessment component 1 and assessment component 2. 11-P-PA							
	comple		solution	11-6-6	Л							

11-P-PC-122-m01	Advan	ced Labo	oratory Co	ourse P	hysics C							
	ECTS	8	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Course	S			Physikalisches Praktikum (Physics Practical Course) Part C-1: P (2 weekly contact hours) Physikalisches Praktikum (Physics Practical Course) Part C-2: P (2 weekly contact hours)							
	Metho	d of ass	essment	1. Lab Test cou 2. Lab a Te the Stude Stude must j	course in part 1: a) I tat (exam) is passed rse (approx. 30 minu course in part 2: a) estat (exam) is passe course (approx. 30 r nts must register for nts will be offered on pass both elements	I. b) Talk (with discusutes). Preparing, performined. b) Talk (with discominutes). rassessment compone opportunity to reta) and b).	g and evaluating the experime ssion) to test the students' und ng and evaluating the experime	lerstanding of th ents will be cons nderstanding of on deadline to b t b). To pass an	assessment component, they			
	Module comple	es succe eted	essfully	<u> </u>	A and 11-P-PB							

Mathematics (32 E	Mathe	matics 1	and 2 for	r students in Physic	S		
101	ECTS	16	Duratio		Method of grading numerical grade	Modul level	undergraduate
	Courses			 10-M-PHY12 10-M-PHY12 	rises 2 module components. Information on courses -1-092: V + Ü (no information on SWS (weekly conta -2-092: V + Ü (no information on SWS (weekly conta	ict hours) and course la act hours) and course la	nguage available) anguage available)
	Metho	d of ass	essment	stated otherwise, s Assessment in moo Physics • 8 ECTS, Metl • written exam 20 minutes) • Language of • Other prerect students ab a declaration assessment dents who massessment Assessment in moo Physics • 8 ECTS, Metl • written exam 20 minutes) • Language of • Other prerect students ab a declaration assessment in moo Physics	module comprises the assessments in the individu successful completion of the module will require suc dule component 10-M-PHY12-1-092: Mathematics 1 hod of grading: (not) successfully completed mination (approx. 90 to 120 minutes, usually chosen or oral examination in groups (groups of 2, approx. f assessment: German, English if agreed upon with t quisites: Certain prerequisites must be met to qualify bout the respective details at the beginning of the co n of will to seek admission to assessment. If stude cover the course of the semester, the lecturer will p meet all prerequisites will be admitted to assessme cat a later date, students will have to obtain the qua dule component 10-M-PHY12-2-092: Mathematics 2 hod of grading: numerical grade nination (approx. 90 to 120 minutes, usually chosen or oral examination in groups (groups of 2, approx. f assessment: German, English if agreed upon with t quisites: Certain prerequisites must be met to qualify bout the respective details at the beginning of the co or oral examination in groups (groups of 2, approx. f assessment: German, English if agreed upon with t quisites: Certain prerequisites must be met to qualify bout the respective details at the beginning of the co n of will to seek admission to assessment. If stude cover the course of the semester, the lecturer will p meet all prerequisites will be admitted to assessme cat a later date, students will have to obtain the qua	ccessful completion of for Students in Physics n) or oral examination of . 30 minutes) the examiner y for admission to asses course. Registration for ents have obtained the put their registration for ent in the current or in alification for admission 2 für Students in Physic n) or oral examination of . 30 minutes) the examiner y for admission to asses course. Registration for ents have obtained the put their registration for ents have obtained the put their registration for ent in the current or in	all individual assessments. Mathematics 1 for Students in of one candidate each (approx. Assment. The lecturer will inform the course will be considered qualification for admission to or assessment into effect. Stu- the subsequent semester. For n to assessment anew. Is Mathematics 2 für Students in of one candidate each (approx. Assment. The lecturer will inform the course will be considered qualification for admission to or assessment into effect. Stu- the subsequent semester. For
	other r	orerequi	sites	By way of exception	n, additional prerequisites are listed in the section of	on assessments	

11-DFS-092-m01	Mathe	matics	and 4 fo	Physicists and	Engineers	; ;						
	ECTS	16	Duratio	1 2 semes	ster	Method of grading	numerical grade	Modul level	undergraduate			
	Course	es			1athematik 3 (Mathematics 3): V (4 weekly contact hours) + Ü (2 weekly contact hours), once a year (winter semester) 1athematik 4 (Mathematics 4): V (4 weekly contact hours) + Ü (2 weekly contact hours), once a year (summer semester)							
	Metho	d of ass	essment	1. Topics cover tes).	ed in lectu		oart 1 (Mathematik 3 (_	examination (approx. 120 minu- examination (approx. 120 minu-			
				tes). 3. Topics cover	ed in lectu	·	parts 1 and 2: oral exa		e each (approx. 30 minutes,			
								ed upon with examiner(s). erequisite for admission t	o assessment components 1 and			
				highly recomm discussed in th	ended to a nese two co	ttend both courses Nourses will be covered	lathematik 3 (Mathen 1 in assessment comp	natics 3) and Mathematik	onent 1 and/or 2. Students are 4 (Mathematics 4). The topics ced).			
				The grade achi	eved in ass	sessment component		petter) and the grade achi	ass assessment component 3. eved in assessment component 3			

Compulsory Electives (27 ECTS credits) Of a total of 27 ECTS credits in the area of mandatory electives, a total of 10 ECTS credits achieved in modules with numerical grading will factor into the overall grade of the Bachelor's degree.

Chemistry, Compu						ence and numerical m	athematics				
08-CP1-102-m01	-		•		and Engineers						
	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course			•	 This module comprises 3 module components. Information on courses will be listed separately for each module component. 08-IOC-1-072: V (no information on SWS (weekly contact hours) and course language available) 08-CP1-3-072: P (no information on SWS (weekly contact hours) and course language available) 08-CP1-1-102: V (no information on SWS (weekly contact hours) and course language available) 						
	Metho	Method of assessment							s as specified below. Unless all individual assessments.		
				engin Asses	eering and natura 3 ECTS, Method of written examinat sment in module 2 ECTS, Method of for each experim mance (log, 2 to Assessment offer Only after succes prerequisite for p sment in module 5 ECTS, Method of written examinat	I science of grading: numerical g ion (approx. 60 minut component o8-CP1-3- of grading: (not) succe ent: Vortestate (pre-e 5 pages), Nachtestate red: once a year, sumr sful completion of mo participation in module component o8-CP1-1- of grading: numerical g ion (approx. 90 minut	grade es) o 72: General and Analytic ssfully completed xperiment exams, appro. (post-experiment exams ner semester dule components: Succe e component o8-CP1-3. co2: Principles of Inorgan grade	cal Chemistry (lab) x. 10 minutes each), a , approx. 10 minutes e essful completion of ma	e, biomedicine, dental medicine, issessment of practical perfor- ach) odule component o8-CP1-1 is a cs and Engineering Majors		
10-I-EIN-072-m01		iction to	o Comput	er Scie	nce for Students o	f all Faculties		<u>.</u>			
	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V + Ü	+ Ü (no informatio	n on SWS (weekly con	tact hours) and course la	anguage available)			
	Metho	Method of assessment			a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral ex- amination in groups (groups of 2: 30 minutes, groups of 3: 40 minutes)						
-	other prerequisites			Admission prerequisite to assessment: academic requirements to be met in exercises as specified at the beginning of the course.							

Bachelor's w	vith 1 major	Physics	(2012)
--------------	--------------	---------	--------

10-M-COM-082-	Compu	terorie	nted Math	emati	cs							
mo1	ECTS	3	Duration	า	1 semester	Method of gradin	g (not) successfully completed	Modul level	undergraduate			
	Course	S		V + Ü	(no information o	n SWS (weekly conta	ct hours) and course language a	vailable)				
	Method	d of ass	essment	Asse	ssment offered: or	nce a year, summer se	s (as specified at the beginning emester agreed upon with the examiner					
	other p	orerequi	sites		ssion prerequisite cused absence).	to assessment: regu	lar attendance of exercises (atte	endance monitor	red, a maximum of one incident of			
	Referre	d to in	LPO I	§73	(1) 5. Mathematik	Angewandte Mathem	atik					
10-M-NM1-082-	Numeri	ical Ma	thematics	1								
m01	ECTS	8	Duration	า	1 semester	Method of gradin	g numerical grade	Modul level	undergraduate			
	Course	S		V + Ü	(no information o	n SWS (weekly conta	ct hours) and course language a	vailable)				
	Method	d of ass	essment	exam	vritten examination (approx. 90 minutes); if announced by the lecturer, the written examination can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups (groups of 2, approx. 30 minutes) anguage of assessment: German, English if agreed upon with the examiner							
	other p	orerequi	SITES	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.								
	Referre	Referred to in LPO I			§ 73 (1) 5. Mathematik Angewandte Mathematik							
10-M-NM2-082-	Numerical Mathematics 2											
m01	ECTS	5	Duratio	1	1 semester	Method of gradin	g numerical grade	Modul level	undergraduate			
	Course	S		V + Ü	(no information o	n SWS (weekly conta	ct hours) and course language a	vailable)				
	Method	d of ass	essment	written examination (approx. 90 minutes); if announced by the lecturer, the written examination can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English if agreed upon with the examiner								
	other p			Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.								
	Referre	d to in	LPO I	§73	(1) 5. Mathematik	Angewandte Mathem	atik					

Bachelor's with 1 major Physics (2012)	JMU Würzburg • generated 26-Aug-2024 • exam. reg. data record 82 128 - - H 2012	page 13 / 55

10-M-PRG-082-	Prograi	mming (course fo	r stude	ents of Mathematics	and other subjects					
m01	ECTS	3	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Courses	s		P (no	P (no information on SWS (weekly contact hours) and course language available)						
	Method	l of asso	essment		project in the form of programming exercises (as specified at the beginning of the course) Language of assessment: German, English if agreed upon with the examiner						
	other p	rerequi	sites		Admission prerequisite to assessment: regular attendance (attendance monitored, a maximum of one incident of unexcused						
		•		abser	nce).	_					
	Referre		-			gewandte Mathemat	ik				
11-BXE5-112-m01	Current	(Topics	in Experi	imenta	l Physics						
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses	S		V + R	(no information on S	WS (weekly contact	hours) and course language ava	ailable)			
	Method of assessment			prox. on/se	a) written examination (approx. 120 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Language of assessment: German or English						
	other p	rerequi	sites	Appro	oval by examination	committee required.					
11-BXE6-112-m01	Current Topics in Experimental Physics										
	ECTS 6 Duratio		n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	S		V + R	V + R (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment			prox. on/se	a) written examination (approx. 120 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Language of assessment: German or English						
	other p	rerequi	sites	Approval by examination committee required.							
11-BXE8-112-m01	Current	Topics	in Experi	imental Physics							
	ECTS	8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses	s	-)	V + R	V + R (no information on SWS (weekly contact hours) and course language available)						
	Method other p		essment	prox. on/se Langu	a) written examination (approx. 120 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Language of assessment: German or English Approval by examination committee required.						
	ourci p	reregui.	JILUJ	1, , , , , , , , , , , , , , , , , , ,	wat by channation i	commute requireu.					

		L3 III IIICOI	etical Physics									
	ECTS 5	Duratio	n 1 semester	Method of grading numerical grade	Modul level	undergraduate						
	Courses		V + R (no information	on SWS (weekly contact hours) and course langu	iage available)							
	Method of as	sessment	prox. 30 minutes per on/seminar presenta	n (approx. 120 minutes) or b) oral examination of candidate) or c) project report (approx. 8 to 10 pa tion (approx. 30 minutes) ient: German or English								
	other prerequ	uisites	Approval by examina	tion committee required.								
11-BXT6-112-m01	Current Topics in Theoretical Physics											
	ECTS 6	Duratio	1 semester	Method of grading numerical grade	Modul level	undergraduate						
	Courses		V + R (no information	on SWS (weekly contact hours) and course langu	iage available)							
	Method of as	sessment	prox. 30 minutes per on/seminar presenta	n (approx. 120 minutes) or b) oral examination of candidate) or c) project report (approx. 8 to 10 pa tion (approx. 30 minutes) ient: German or English								
11-BXT8-112-m01	Current Topic	cs in Theor	etical Physics									
	ECTS 8	Duratio	n 1 semester	Method of grading numerical grade	Modul level	undergraduate						
	Courses		V + R (no information	on SWS (weekly contact hours) and course langu	ıage available)							
	Method of as	sessment	a) written examination (approx. 120 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Language of assessment: German or English									
	other prerequ	uisites	Approval by examina	tion committee required.								
Applied Physics a Modules offered b		the area o	f Angewandte Physik u	nd Messtechnik (Applied Physics and Measurem	ent Technology).							
11-A2-092-m01	Electronics											
	ECTS 6	D										
	2013 0	Duratio	n 1 semester	Method of grading numerical grade	Modul level	undergraduate						
	Courses	Duratio		Method of grading numerical grade on SWS (weekly contact hours) and course langu		undergraduate						
	I		V + Ü (no information written examination (Assessment offered:	on SWS (weekly contact hours) and course langu	lage available) depends on the metho	od of assessment and will be an						
	Courses	sessment	V + Ü (no information) written examination (Assessment offered: nounced in due form 2009. Certain prerequisites tive details at the beg on to assessment. If the lecturer will put th sessment in the curre	on SWS (weekly contact hours) and course langu approx. 90 minutes) When and how often assessment will be offered of	age available) depends on the metho PO (general academic ent. The lecturer will i will be considered a d ission to assessment nts who meet all prese	od of assessment and will be an and examination regulations) nform students about the respe eclaration of will to seek admiss over the course of the semester, equisites will be admitted to as-						
	Courses Method of as	uisites	V + Ü (no information written examination (Assessment offered: nounced in due form 2009. Certain prerequisites tive details at the beg on to assessment. If the lecturer will put th sessment in the curre fication for admission	on SWS (weekly contact hours) and course langu approx. 90 minutes) When and how often assessment will be offered of under observance of Section 32 Subsection 3 AS must be met to qualify for admission to assessme ginning of the course. Registration for the course students have obtained the qualification for admi neir registration for assessment into effect. Stude ent or in the subsequent semester. For assessment	age available) depends on the metho PO (general academic ent. The lecturer will i will be considered a d ission to assessment ints who meet all prero nt at a later date, stud	od of assessment and will be an and examination regulations) nform students about the respe eclaration of will to seek admiss over the course of the semester, equisites will be admitted to as-						

11-A3-072-m01	Laboratory and Measurement Technology												
	ECTS 6	Duration	1 semester	Method of grading numerical grade	Modul level	undergraduate							
	Courses	V -	⊢Ü (no information	on SWS (weekly contact hours) and course la	nguage available)								
	Method of asse	essment wr	itten examination (a	approx. 120 minutes)									
	other prerequis	to co ob for qu	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.										
	Participants an cation of place	S	Only as part of pool of general key skills (ASQ): 15 places. Places will be allocated by lot.										
11-ASI-092-m01	Reproducing Sensors in Infrared												
	ECTS 3	Duration	1 semester	Method of grading numerical grade	Modul level	undergraduate							
	Courses	V -	V + R (no information on SWS (weekly contact hours) and course language available)										
	Method of asse	pro to As no 20 La	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English										
	other prerequis	tiv on the se	e details at the begi to assessment. If s e lecturer will put th ssment in the currer	must be met to qualify for admission to asses inning of the course. Registration for the cour tudents have obtained the qualification for a eir registration for assessment into effect. Stu nt or in the subsequent semester. For assess to assessment anew.	se will be considered a de dmission to assessment o udents who meet all prere	eclaration of will to seek admissi- over the course of the semester, equisites will be admitted to as-							

11-ASL-092-m01	Applied Supe	erconduction										
	ECTS 6	Duration	1 semester	Method of grading numerical grade	Modul level	graduate						
	Courses	R	+ V (no information of	on SWS (weekly contact hours) and course lan	guage available)	-						
	Method of as	p p A	rox. 30 minutes per c ages, time to comple ssessment offered: c	n (approx. 90 minutes) or b) oral examination o candidate, for modules with less than 4 ECTS o ete: 1 to 4 weeks) or d) presentation/seminar p once a year, winter semester ent: German, English	redits approx. 20 minute	es) or c) project report (approx. 8						
	other prerequ	ti o tr so	ive details at the begin to assessment. If s ne lecturer will put the lecturer in the currer	must be met to qualify for admission to assess inning of the course. Registration for the cours students have obtained the qualification for ad heir registration for assessment into effect. Stu- nt or in the subsequent semester. For assessment to assessment anew.	se will be considered a de Imission to assessment o dents who meet all prere	eclaration of will to seek admissi- over the course of the semester, equisites will be admitted to as-						
11-EBV-092-m01	Principles of Image Processing											
	ECTS 3	Duration	1 semester	Method of grading numerical grade	Modul level	undergraduate						
	Courses	V	V + R (no information on SWS (weekly contact hours) and course language available)									
	Method of as	p tc A n 2	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English									
	other prerequ	ti o th se	ive details at the begin to assessment. If s he lecturer will put th essment in the currer	must be met to qualify for admission to assess inning of the course. Registration for the cours students have obtained the qualification for ad heir registration for assessment into effect. Stu- nt or in the subsequent semester. For assessment to assessment anew.	se will be considered a do mission to assessment o dents who meet all prere	eclaration of will to seek admissi- over the course of the semester, equisites will be admitted to as-						

11-ENT-092-m01	Princip	les of E	nergy Tech	nolog	jies					
	ECTS 6 Duration				1 semester	Method of grading	numerical grade	Modul level	graduate	
	Course	Courses			no information on	SWS (weekly contact	hours) and course language av	/ailable)		
	Methoo	d of asso	r 2	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English						
	other p	prerequi	t c 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.						
11-EPP-092-m01	Introdu	uction to	Plasmaph	nysics						
	ECTS	6	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate	
	Course	!S	١	V + R (no information on	SWS (weekly contact	hours) and course language av	vailable)		
	Methoo	d of ass	r 2	prox. <u>3</u> to 10 p Asses: nounc 2009.	30 minutes per can bages, time to com sment offered: Whe red in due form und	didate, for modules w plete: 1 to 4 weeks) or en and how often ass ler observance of Sec	with less than 4 ECTS credits ap r d) presentation/seminar pres	oprox. 20 minute sentation (approx ds on the metho	d of assessment and will be an-	
	other p	prerequi	t c t	tive de on to a the leo sessm	etails at the beginn assessment. If stud cturer will put their	ing of the course. Reg lents have obtained t registration for asses or in the subsequent s	gistration for the course will be he qualification for admission ssment into effect. Students wh	considered a de to assessment o no meet all prere	form students about the respec- cclaration of will to seek admissi- over the course of the semester, quisites will be admitted to as- ents will have to obtain the quali-	

11-HLF-092-m01	Semico	onducto	r Lasers -	Princip	oles and Current Re	esearch						
	ECTS	6	Duration	า	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		R + V (R + V (no information on SWS (weekly contact hours) and course language available)							
	Metho	d of ass	essment	prox. (to 10 p Asses nounc 2009.	30 minutes per can bages, time to com sment offered: Wh ted in due form und	approx. 90 minutes) or b) oral examination of one c ididate, for modules with less than 4 ECTS credits a plete: 1 to 4 weeks) or d) presentation/seminar pre en and how often assessment will be offered deper der observance of Section 32 Subsection 3 ASPO (g	pprox. 20 minute sentation (appro nds on the metho	es) or c) project report (approx. 8 x. 30 minutes) d of assessment and will be an-				
	other p	rerequi		Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.								
11-KVM-092-m01	Principles of Classification of Patterns											
	ECTS	3	Duratior	າ	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	S		V + R ((no information on	SWS (weekly contact hours) and course language a	available)					
	Metho	d of ass	essment	minut ges, ti Asses nounc 2009.	es per candidate, f me to complete: 1 sment offered: Wh ced in due form und	oo minutes) or b) oral examination of one candidate or modules with less than 4 ECTS credits approx. 20 to 4 weeks) or d) presentation/seminar presentatio en and how often assessment will be offered deper der observance of Section 32 Subsection 3 ASPO (g	o minutes) or c) p on (approx. 30 min nds on the metho	project report (approx. 8 to 10 pa- nutes) d of assessment and will be an-				
	other p	rerequi	sites	tive de on to a the lee sessm	etails at the beginn assessment. If stuc cturer will put their tent in the current o	st be met to qualify for admission to assessment. T ing of the course. Registration for the course will be dents have obtained the qualification for admission registration for assessment into effect. Students w or in the subsequent semester. For assessment at a assessment anew.	e considered a de 1 to assessment c ho meet all prere	eclaration of will to seek admissi- over the course of the semester, quisites will be admitted to as-				

11-0HL-092-m01	Organic Semiconductor												
	ECTS	5	Duratior	า	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	S		V + Ü	(no information o	n SWS (weekly contact	hours) and course la	nguage available)					
	Method	l of ass	essment	prox.	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes)								
	other p	rerequi	sites	to qua cours obtai for as	alify for admissior e. Registration for ned the qualificati sessment into eff	n to assessment. The le the course will be con ion for admission to as ect. Students who mee	ecturer will inform stu sidered a declaration sessment over the co all prerequisites wil	dents about the respectiv of will to seek admission urse of the semester, the l be admitted to assessm	Certain prerequisites must be met e details at the beginning of the to assessment. If students have lecturer will put their registration ent in the current or in the subse- n for admission to assessment an-				
11-TDOE-141-m01	Thermo	odynam	ics and Ec	onom	ics								
	ECTS	3	Duratior	า	1 semester	Method of grading	(not) successfully co	ompleted Modul level	graduate				
	Courses	s		V (no	information on SN	NS (weekly contact hou	urs) and course langu	age available)					
	Method	l of ass	essment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes)									
11-ASM-131-m01	Astronomical Methods												
	ECTS	6	Duratior	۱	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	s	-,	V + R	(no information o	n SWS (weekly contact	hours) and course la	nguage available)					
				a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentati- on/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be an- nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English									
	other p	rerequi	sites	tive d on to the le sessr	etails at the begin assessment. If stu cturer will put the nent in the curren	nning of the course. Re udents have obtained t ir registration for asses	gistration for the cour the qualification for a ssment into effect. Stu	se will be considered a de dmission to assessment o udents who meet all prere	nform students about the respec- eclaration of will to seek admissi- over the course of the semester, equisites will be admitted to as- ents will have to obtain the quali-				

Bachelor's with 1 major Physics (2012)

11-TDO-092-m01	Thermo	odynam	ics and Ec	onomi	cs							
	ECTS	6	Duration	า	1 semester	I	Nethod of gradin	g numerical g	rade	Modul level	graduate	
	Course	S		R + V ((no information	on SV	/S (weekly conta	ct hours) and c	ourse language av	ailable)		
	Method of assessment				30 minutes per pages, time to c sment offered: ced in due form	candic comple When under	date, for modules ete: 1 to 4 weeks) and how often as	s with less thar or d) presenta ssessment will	n 4 ECTS credits ap tion/seminar prese be offered depend	prox. 20 minute entation (appro Is on the metho	oral examination in groups (ap- es) or c) project report (approx. 8 x. 30 minutes) d of assessment and will be an- and examination regulations)	
	other p	prerequi	sites	tive de on to a the lee sessm	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the 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-ZDR-111-m01	Principles of two- and threedimensional Röntgen imaging											
	ECTS	6	Duration	า	1 semester	Ι	Method of gradin	g numerical g	rade	Modul level	graduate	
	Course	S		V + R ((no information	on SV	/S (weekly conta	ct hours) and c	ourse language av	ailable)		
	Metho	Method of assessment			a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009.							
	other prerequisites			tive de on to a the lee sessm	etails at the beg assessment. If cturer will put the nent in the curre	ginning studen heir reg ent or i	g of the course. R its have obtained gistration for ass	egistration for I the qualificat essment into e	the course will be ion for admission t ffect. Students wh	considered a de to assessment o o meet all prere	form students about the respec- eclaration of will to seek admissi- over the course of the semester, quisites will be admitted to as- ents will have to obtain the quali-	
11-BXE5-112-m01	Curren	t Topics	in Experi	mental	l Physics							
	ECTS	5	Duration	า	1 semester	I	Nethod of gradin	g numerical g	rade	Modul level	undergraduate	
	Courses			V + R (no information	on SW	/S (weekly conta	ct hours) and c	ourse language av	ailable)		
	Method of assessment			a) written examination (approx. 120 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Language of assessment: German or English								
	other p	orerequi	sites	Appro	val by examina	tion co	ommittee require	d.				

Bachelor's with 1 major Physics (2012)	JMU Würzburg • generated 26-Aug-2024 • exam. reg. data record 82 128 - - H 2012	page 21 / 55

11-BXE6-112-m01	Current	Topics	in Experi	menta	l Physics							
	ECTS	6	Duratio	ı	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	5	_	V + R	(no information or	n SWS (weekly contac	t hours) and course lan	nguage available)	_			
	Method	of ass	essment	a) written examination (approx. 120 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Language of assessment: German or English								
	other pi	rerequi	sites	Appro	Approval by examination committee required.							
11-BXE8-112-m01	Current	Topics	in Experi	nental Physics								
	ECTS	8	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	5	-	V + R	(no information or	SWS (weekly contac	t hours) and course lan	iguage available)				
	Method	of asso	essment	prox. on/se	written examination (approx. 120 minutes) or b) oral examination of one candidate each or oral examination in groups (ap- ox. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentati- n/seminar presentation (approx. 30 minutes) inguage of assessment: German or English							
	other pr	rerequi	sites	Appro	oval by examinatio	n committee required	•					
11-BXT5-112-m01		ent Topics in Theoretical Physics										
	ECTS	5	Duration		1 semester	Method of grading		Modul level	undergraduate			
	Courses	-			-		t hours) and course lan	<u> </u>				
	Method	of ass	essment	prox. on/se	a) written examination (approx. 120 minutes) or b) oral examination of one candidate each or oral examination in groups (ap prox. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentati- on/seminar presentation (approx. 30 minutes) Language of assessment: German or English							
	other pi			Approval by examination committee required.								
11-BXT6-112-m01			in Theore	retical Physics								
	ECTS	6	Duratio		1 semester	Method of grading		Modul level	undergraduate			
	Courses	5					t hours) and course lan					
				prox. on/se Langu	30 minutes per ca minar presentatio lage of assessmer		report (approx. 8 to 10		or oral examination in groups (ap- e: 1 to 4 weeks) or d) presentati-			
11-BXT8-112-m01		-	in Theor		Physics							
	ECTS	8	Duration		1 semester	Method of grading	-	Modul level	undergraduate			
	Courses		_				t hours) and course lan					
					a) written examination (approx. 120 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Language of assessment: German or English							
	other pr	rerequi	sites	Appro	oval by examinatio	n committee required	•					
Bachelor's with 1 major F	hysics (2012	sics (2012) JMU Würzburg • generated 26-Aug-2024 • exam. reg. data record 82 128 - - H 2012 page 22 / 55										

chelor's with 1 major Physics (2012)

JMU Würzburg • generated 26-Aug-2024 • exam. reg. data record 82|128|-|-|H|2012 page 22 / 55

11-BSV-122-m01	Image and Signal Processing in Physics												
	ECTS	6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		V + R	V + R (no information on SWS (weekly contact hours) and course language available)								
	Method	l of ass	essment	a) written examination (90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009.									
	other p	rerequi	sites	tive d on to the le sessn	etails at the begin assessment. If st cturer will put the nent in the curren	nning of the course. Reg udents have obtained t eir registration for asses	gistration for the course will b the qualification for admissio ssment into effect. Students v	be considered a de n to assessment c who meet all prere	form students about the respec- eclaration of will to seek admissi- over the course of the semester, quisites will be admitted to as- ents will have to obtain the quali-				
11-BSV-131-m01	Image and Signal Processing in Physics												
	ECTS 6 Duratio			n 1 semester Method of grading numerical grade Modul le				Modul level	vel graduate				
	Course	S		V + R	V + R (no information on SWS (weekly contact hours) and course language available)								
	Method	l of ass	essment	prox. on/se Asses nound 2009.	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English								
	other p	rerequi	sites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semesters.									

Solid State Physic Modules for advan				offered	by the Faculty wi	th regard to preparation	on for Bachelor's thesis	s and specialis	sation in Ma	aster's programme.		
11-SPD-102-m01	Semico	nducto	r Physics	and De	evices							
	ECTS	6	Duratio	1 1	1 semester	Method of grading	numerical grade	M	odul level	graduate		
	Course	S		V + R	/ + R (no information on SWS (weekly contact hours) and course language available)							
	Methoo	d of ass	essment	30 mi ges, ti Asses nound 2009.	written examination (approx. 90 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or project report (approx. 8 to 10 pa- ges, time to complete: 1 to 4 weeks) or presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be an- nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English							
	other 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-ASL-092-m01		d Super	conductio	n			_					
	ECTS	6	Duratio	1	1 semester	Method of grading	g numerical grade	M	odul level	graduate		
	Course	S		R + V	R + V (no information on SWS (weekly contact hours) and course language available)							
	Methoo	d of ass	essment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: once a year, winter semester Language of assessment: German, English								
	other p	rerequi		tive d on to the le sessm	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-FK2-092-m01	Solid State Physics 2											
	ECTS	8	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	s		R + V (no information on	SWS (weekly contact	hours) and course language av	/ailable)				
	Metho	l of asse		prox. (to 10 p Asses nounc 2009.	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English							
	other p	prerequis		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-FKS-092-m01	Solid State Spectroscopy											
	ECTS	6	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		R + V ((no information on	SWS (weekly contact	hours) and course language av	/ailable)				
	Metho	1 of asse		prox. (to 10 p Asses nound 2009.	30 minutes per car bages, time to com sment offered: Wh ced in due form und	ndidate, for modules v iplete: 1 to 4 weeks) of en and how often ass	with less than 4 ECTS credits ap r d) presentation/seminar pres	prox. 20 minute entation (approx ds on the metho	d of assessment and will be an-			
	other p	prerequis		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-FKT-092-m01	Transport Phenomena in Solids											
	ECTS	6	Duration	1	1 semester	Method of grading numerical grade		Modul level	graduate			
	Course	s		R + V	(no information or	n SWS (weekly contact hours) and course lan	nguage ava	ailable)				
	Methoo	l of ass		prox. to 10 Asses nound 2009.	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English							
		prerequi		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-HLF-092-m01	Semiconductor Lasers - Principles and Current Research											
	ECTS	6	Duration	1	1 semester	Method of grading numerical grade		Modul level	graduate			
	Course	s		R + V	(no information or	n SWS (weekly contact hours) and course lan	nguage ava	ailable)				
	Methoo	l of ass		a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (a prox. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English								
	other p	orerequi		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-HLP-092-m01	Semiconducto	or Physics										
	ECTS 6	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		R + V (R + V (no information on SWS (weekly contact hours) and course language available)								
	Method of ass		a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English									
	other prerequ		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-HNS-092-m01	Semiconductor Nanostructures											
	ECTS 6	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	[]	R + V (no information on	SWS (weekly contact	hours) and course language av	ailable)					
	Method of ass	 	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups prox. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (appr to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulation 2009. Language of assessment: German, English									
	other prerequ	1	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.									

11-MAG-092-m01	Magnetism											
	ECTS	6	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	s		R + V (no information on	SWS (weekly contact	hours) and course language av	ailable)				
	Methoo	1 of asse		a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English								
	other p	prerequis		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-MST-092-m01	Magnetism and Spin Transport											
	ECTS	6	Duration		2 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V + R +	V (no information	on SWS (weekly cont	act hours) and course language	e available)				
	Methoo	l of asse		prox. to 10 p Asses nounc 2009.	30 minutes per can bages, time to com sment offered: Wh ed in due form und	didate, for modules w plete: 1 to 4 weeks) or en and how often assi der observance of Sec	vith less than 4 ECTS credits ap r d) presentation/seminar prese	prox. 20 minute entation (appro» Is on the metho	d of assessment and will be an-			
	other p	prerequis		tive de on to a the lea sessm	etails at the beginn assessment. If stuc cturer will put their tent in the current o	ing of the course. Reg lents have obtained t registration for asses	gistration for the course will be he qualification for admission t sment into effect. Students wh	considered a de to assessment o o meet all prere	form students about the respec- cclaration of will to seek admissi- over the course of the semester, quisites will be admitted to as- ents will have to obtain the quali-			

11-NAN-092-m01	Nanoanalytics											
	ECTS	6	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		R + V ((no information on	SWS (weekly contact	hours) and course language av	/ailable)				
	Methoo	l of asse		prox. (to 10) Asses nound 2009.	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English							
	other p	prerequis		tive do on to the le sessm	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the 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-NDS-092-m01	Low-Dimensional Structures											
	ECTS	4	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		R + V ((no information on	SWS (weekly contact	hours) and course language av	/ailable)				
	Methoo	1 of asse		a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in grou prox. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (a to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and wi nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regula 2009. Language of assessment: German, English								
	other p	prerequis		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-QTH-102-m01	Quantu	im Trans	sport in S	emicor	nductor Nanostru	tures					
	ECTS	6	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	s		V + R ((no information o	n SWS (weekly contact	hours) and course language av	ailable)			
	Method	d of ass		a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English							
	other p	rerequi		Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.							
11-NOP-092-m01	Nano-Optics										
	ECTS 4 Duratio			1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		R + V ((no information o	n SWS (weekly contact	hours) and course language av	ailable)			
	Methoo	d of asso		prox. 3 to 10 p Asses nounc 2009.	30 minutes per ca bages, time to cor sment offered: W red in due form ur	ndidate, for modules v nplete: 1 to 4 weeks) o nen and how often ass	vith less than 4 ECTS credits ap r d) presentation/seminar prese	prox. 20 minute entation (appro: Is on the metho	d of assessment and will be an-		
	other p	rerequi		tive de on to a the lea sessm	etails at the begin assessment. If stu cturer will put the nent in the current	ning of the course. Reg idents have obtained t r registration for asses	gistration for the course will be on he qualification for admission t soment into effect. Students who	considered a de o assessment c o meet all prere	form students about the respec- eclaration of will to seek admissi- over the course of the semester, quisites will be admitted to as- ents will have to obtain the quali-		

11-QM2-092-m01	Quantum Mechanics II												
	ECTS	8 Du	ration	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Courses		R + V	(no information on	SWS (weekly contact	hours) and course language a	available)						
	Method	of assessn	prox. to 10 Asses noun 2009	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English									
	other pr	erequisites	tive c on to the le sessi	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-QPM-092-m01	Quantum Phenomena in electronic correlated Materials												
	ECTS	6 Du	ration	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses		R + V	(no information on	SWS (weekly contact	hours) and course language a	available)						
	Method	of assessn	prox. to 10 Asse noun 2009	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (a prox. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be a nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English									
	other pr	erequisites	tive of on to the less sesses	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-QVTP-092-m01	Many Body Quantum Theory												
	ECTS	8	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	s	ł	R + V (no information on SWS (weekly contact hours) and course language available)									
	Method	l of asse	F t r z	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English									
	other p	rerequis	t c 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.									
11-RMS-092-m01	Relativistic Effects in Mesoscopic Systems												
	ECTS 5 Duratio				1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	s	F	R + V (no information on S	SWS (weekly contact	hours) and course language a	available)					
	Method	l of asse	F t r 2	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (prox. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (appro to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations 2009. Language of assessment: German, English									
	other p	rerequis	t c 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.									

11-TFK-092-m01	Theoretical Solid State Physics									
	ECTS 8 D	ouration	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses	R + V	(no information o	n SWS (weekly contact hours) and course l	anguage available)					
	Method of assess	prox. to 10 Asse noun 2009	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English							
	other prerequisite	tive of on to the loss	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.							
	Theory of Superconduction									
	ECTS 5 D	uration	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses	R + V	(no information o	n SWS (weekly contact hours) and course l	anguage available)					
	Method of assess	prox. to 10 Asse noun 2009	30 minutes per ca pages, time to co ssment offered: W iced in due form u	(approx. 90 minutes) or b) oral examinatio andidate, for modules with less than 4 ECTS mplete: 1 to 4 weeks) or d) presentation/se 'hen and how often assessment will be offe nder observance of Section 32 Subsection nt: German, English	S credits approx. 20 minut minar presentation (appro ered depends on the metho	tes) or c) project report (approx. 8 ox. 30 minutes) od of assessment and will be an-				
	other prerequisite	tive of on to the lo sess	details at the begin assessment. If streeturer will put the ment in the curren	nust be met to qualify for admission to asse nning of the course. Registration for the cou udents have obtained the qualification for ir registration for assessment into effect. S t or in the subsequent semester. For asses to assessment anew.	urse will be considered a d admission to assessment tudents who meet all prer	leclaration of will to seek admissi- over the course of the semester, equisites will be admitted to as-				

11-RMFT-102-m01	Renormalization Group Methods in Field Theory									
	ECTS 6 Duration		Duration	1 semester Method of grading numerical grade Modul level graduate						
	Course	S	١	V + R (no information on SWS (weekly contact hours) and course language available)						
	Metho	1 of asso	r 2	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English						
	other prerequisites			tive de on to a the leo sessm	etails at the beginn assessment. If stuc cturer will put their tent in the current o	ning of the course. Reg dents have obtained t registration for asses	gistration for the course will be on he qualification for admission t soment into effect. Students who	considered a de o assessment o o meet all prere	form students about the respec- claration of will to seek admissi- ver the course of the semester, quisites will be admitted to as- ents will have to obtain the quali-	
	Spintronics									
	ECTS	6	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses			V + R (no information on SWS (weekly contact hours) and course language available)						
	Metho	1 of asso	r 2	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English						
				tive de on to a the leo sessm	etails at the beginn assessment. If stud cturer will put their nent in the current o	ning of the course. Reg dents have obtained t registration for asses	gistration for the course will be on he qualification for admission t soment into effect. Students who	considered a de o assessment o o meet all prere	form students about the respec- claration of will to seek admissi- ver the course of the semester, quisites will be admitted to as- nts will have to obtain the quali-	

11-IEM-111-m01	Introduction to Electron Microscopy									
	ECTS	4	Duratio	n	1 semester	Method of grading	numerical grade	Modul leve	el graduate	
	Course	S		V + R	(no information on	SWS (weekly contact	hours) and course la	nguage available)		
	Method of assessment			a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English						
	other prerequisites			tive d on to the le sessr	etails at the begin assessment. If stu cturer will put thei nent in the current	ning of the course. Re dents have obtained t r registration for asse:	gistration for the cour the qualification for a ssment into effect. St	se will be considered a dmission to assessme udents who meet all pi	Il inform students about the respec- a declaration of will to seek admissi- nt over the course of the semester, rerequisites will be admitted to as- udents will have to obtain the quali-	
11-BXE5-112-m01	Current	t Topics	in Experi	menta	l Physics					
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul leve	l undergraduate	
	Course	S	_,,	V + R	(no information on	SWS (weekly contact	hours) and course la	nguage available)		
	Method of assessment			a) written examination (approx. 120 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Language of assessment: German or English						
	other prerequisites			Approval by examination committee required.						
11-BXE6-112-m01	Current	t Topics	in Experi	imental Physics						
	ECTS 6 Duratio		n	1 semester	Method of grading	numerical grade	Modul leve	l undergraduate		
	Courses			V + R (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment			a) written examination (approx. 120 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Language of assessment: German or English						
	other p	rerequi	sites	Approval by examination committee required.						
11-BXE8-112-m01	Current Topics in Experimental Physics									
	ECTS	8	Duratio		1 semester	Method of grading		Modul leve	el undergraduate	
	Course	-		V + R (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment			a) written examination (approx. 120 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Language of assessment: German or English						
	other p	rerequi	sites	Approval by examination committee required.						
							-			
Bachelor's with 1 major	Physics (201	2)					JMU Würzburg • genera	ated 26-Aug-2024 • exam. reg. d	ata record 82 128 - - H 2012 page 35 / 55	

|--|

11-BXT5-112-m01	Current Topics in Theoretical Physics									
	ECTS 5 Duration			n	1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Course	s	•	V + R	(no information on S	SWS (weekly contact hours) and course language a	vailable)			
	Method of assessment			a) written examination (approx. 120 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentati- on/seminar presentation (approx. 30 minutes) Language of assessment: German or English						
	other p	other prerequisites			oval by examination	committee required.				
11-BXT6-112-m01	Current Topics in Theoretical Physics									
	ECTS	6	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Course	5		V + R	(no information on S	SWS (weekly contact hours) and course language a	vailable)			
	Metho	d of ass	essment	a) written examination (approx. 120 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Language of assessment: German or English						
11-BXT8-112-m01	Curren	t Topics	in Theor	etical F	hysics					
	ECTS 8 Duratio			n	1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Course	s		V + R (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment			a) written examination (approx. 120 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Language of assessment: German or English						
	other p	rerequi	sites	Approval by examination committee required.						
11-PMM-132-m01	Physics of Advanced Materials									
	ECTS 6 Duratio			n	1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	!S	•	V + R (no information on SWS (weekly contact hours) and course language available)						
	Metho	d of ass	essment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentati- on/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be an- nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English						

Astro Physics and Modules for advan			dents o	ffered	by the Faculty with	n regard to preparation	n for Bachelor's t	hesis and spec	cialisation in Ma	aster's programme.		
11-A4-072-m01	Astrophy	/sics										
	ECTS 6	5 D	uration	1	1 semester	Method of grading	numerical grad	e	Modul level	undergraduate		
	Courses		ĺ	V + S	V + S (no information on SWS (weekly contact hours) and course language available)							
	Method o	ofassess	ment	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 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-AKM-092-m01	Cosmolo	gy										
	ECTS 6	5 D	uration	1	1 semester	Method of grading	numerical grad	e	Modul level	graduate		
	Courses			R + V (no information on SWS (weekly contact hours) and course language available)								
	Method of assessment			a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English								
	other pre	erequisite	25	tive de on to the le sessm	etails at the beginr assessment. If stuc cturer will put their tent in the current	ning of the course. Reg dents have obtained t registration for asses	gistration for the he qualification sment into effec	course will be for admission t t. Students wh	considered a de to assessment o o meet all prere	nform students about the respec- eclaration of will to seek admissi- over the course of the semester, equisites will be admitted to as- ents will have to obtain the quali-		

11-APL-092-m01	Plasma	a-Astrop	hysics							
	ECTS	6	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate	
	Course	s		R + V (no information on	SWS (weekly contact	hours) and course language a	available)		
	Methoo	l of asso	 	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English						
	other p	prerequi		tive de on to a the lee sessm	etails at the beginr assessment. If stud cturer will put their nent in the current	ning of the course. Reg dents have obtained th r registration for asses	gistration for the course will be he qualification for admissior sment into effect. Students w	e considered a de n to assessment c vho meet all prere	form students about the respec- eclaration of will to seek admissi- over the course of the semester, quisites will be admitted to as- ents will have to obtain the quali-	
11-ASM-131-m01	Astronomical Methods									
	ECTS	6	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate	
	Course	S	ľ	V + R (no information on	SWS (weekly contact	hours) and course language a	available)		
	Methoo	1 of ass		prox. <u>;</u> on/se Asses nounc 2009.	30 minutes per car minar presentation sment offered: Wh ced in due form uno	ndidate) or c) project re n (approx. 30 minutes) ien and how often asse	eport (approx. 8 to 10 pages,) essment will be offered deper	time to complete nds on the metho	oral examination in groups (ap- : 1 to 4 weeks) or d) presentati- d of assessment and will be an- and examination regulations)	
	other p	prerequi	t c t	tive de on to a the lee sessm	etails at the beginr assessment. If stuc cturer will put their nent in the current	ning of the course. Reg dents have obtained th r registration for asses	gistration for the course will be he qualification for admissior sment into effect. Students w	e considered a de n to assessment c vho meet all prere	form students about the respec- eclaration of will to seek admissi- over the course of the semester, quisites will be admitted to as- ents will have to obtain the quali-	

11-ASP-092-m01	Introduction to Space Physics												
	ECTS	6	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	s		R + V (R + V (no information on SWS (weekly contact hours) and course language available)								
	Method	l of asse		a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English									
	other p	rerequis		tive de on to a the lea sessm	etails at the beginni assessment. If stude cturer will put their r	ng of the course. Reg ents have obtained th registration for asses r in the subsequent s	sistration for the course will be he qualification for admission sment into effect. Students w	e considered a de to assessment c ho meet all prere	form students about the respec- eclaration of will to seek admissi- over the course of the semester, quisites will be admitted to as- ents will have to obtain the quali-				
11-AWP-092-m01	Atmosphere and Space Physics												
	ECTS 6 Duratio				1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	S		R + V ((no information on S	SWS (weekly contact	hours) and course language a	vailable)					
	Method	l of asse		prox. 3 nar pro Asses nounc 2009.	30 minutes per cand esentation (approx. sment offered: Whe red in due form unde	didate) or c) project re 30 minutes) n and how often asse er observance of Sec	eport (approx. 8 pages, time t essment will be offered deper	o complete: 1 to . ids on the metho	oral examination in groups (ap- 4 weeks) or d) presentation/semi- d of assessment and will be an- and examination regulations)				
	other p	rerequis		tive de on to a the lea sessm	etails at the beginni assessment. If stude cturer will put their r	ng of the course. Reg ents have obtained tl registration for asses r in the subsequent s	sistration for the course will be he qualification for admission sment into effect. Students w	e considered a de to assessment c ho meet all prere	form students about the respec- eclaration of will to seek admissi- over the course of the semester, quisites will be admitted to as- ents will have to obtain the quali-				

11-EPP-092-m01	Introduction to Plasmaphysics											
	ECTS	6	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	s		V + R (V + R (no information on SWS (weekly contact hours) and course language available)							
	Methoc	d of ass		prox. (to 10 p Asses nounc 2009.	30 minutes per can bages, time to com sment offered: Who ed in due form und	didate, for modules w plete: 1 to 4 weeks) or en and how often assi ler observance of Sec	vith less than 4 ECTS credits ap r d) presentation/seminar prese	prox. 20 minute entation (approx s on the metho	d of assessment and will be an-			
	other p	rerequi		tive de on to a the lee sessm	etails at the beginn assessment. If stuc cturer will put their	ing of the course. Reg lents have obtained t registration for asses or in the subsequent s	sistration for the course will be on he qualification for admission t sment into effect. Students who	considered a de o assessment c o meet all prere	form students about the respec- eclaration of will to seek admissi- over the course of the semester, quisites will be admitted to as- ents will have to obtain the quali-			
11-GRT-092-m01	Group Theory											
	ECTS	6	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		R + V ((no information on	SWS (weekly contact	hours) and course language av	ailable)				
	Methoc	d of ass		prox. to 10 p Asses nounc 2009.	30 minutes per can bages, time to com sment offered: Who ed in due form und	didate, for modules w plete: 1 to 4 weeks) or en and how often ass ler observance of Sec	vith less than 4 ECTS credits ap r d) presentation/seminar prese	prox. 20 minute entation (approx s on the metho	d of assessment and will be an-			
	other p	rerequi		tive de on to a the lee sessm	etails at the beginn assessment. If stuc cturer will put their	ing of the course. Reg lents have obtained t registration for asses or in the subsequent s	sistration for the course will be on he qualification for admission t sment into effect. Students who	considered a de o assessment c o meet all prere	form students about the respec- eclaration of will to seek admissi- over the course of the semester, quisites will be admitted to as- ents will have to obtain the quali-			

11-NMA-111-m01	Computational Astrophysics										
	ECTS 6	Duration	1 semester	Method of grading numerical grade	Modul lev	vel graduate					
	Courses	V + F	V + R (no information on SWS (weekly contact hours) and course language available)								
	Method of ass	prox on/s Asse nour 2009	a) written examination (approx. 120 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English								
	other prerequi	tive on to the l sess	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-SUS-092-m01	Supersymmetry I and II										
	ECTS 6	Duration	1 semester	Method of grading numerical grade	Modul lev	vel graduate					
	Courses	V + F	(no information on	SWS (weekly contact hours) and course l	anguage available)						
	Method of ass	prox to 10 Asse nour 2009	. 30 minutes per can pages, time to com ssment offered: Wh need in due form un	approx. 90 minutes) or b) oral examinatio ndidate, for modules with less than 4 ECTS nplete: 1 to 4 weeks) or d) presentation/se nen and how often assessment will be offe ider observance of Section 32 Subsection nt: German, English	S credits approx. 20 mi minar presentation (appresentation (appresentation (appresented by the mission of the mission structure) and the mission structure appresented by the mission structure appresented by the mission structure appresented by the	nutes) or c) project report (approx. 8 oprox. 30 minutes) ethod of assessment and will be an-					
	other prerequi	tive on to the l sess	details at the begin assessment. If stu ecturer will put thei ment in the current	ust be met to qualify for admission to asse ning of the course. Registration for the cou dents have obtained the qualification for r registration for assessment into effect. S or in the subsequent semester. For asses assessment anew.	Irse will be considered admission to assessm tudents who meet all p	a declaration of will to seek admissi- ent over the course of the semester, prerequisites will be admitted to as-					

11-RNT-092-m01	Renormalization Theory										
	ECTS	6	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		R + V (R + V (no information on SWS (weekly contact hours) and course language available)						
	Methoo	d of asso		a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English							
	other p	prerequi		tive de on to a the lee sessm	etails at the beginr assessment. If stud cturer will put their tent in the current	ning of the course. Rea dents have obtained t registration for asses	gistration for the course will be the qualification for admission ssment into effect. Students wl	e considered a de to assessment o ho meet all prere	form students about the respec- eclaration of will to seek admissi- over the course of the semester, quisites will be admitted to as- ents will have to obtain the quali-		
11-RQFT-092-m01	Relativistical Quantumfield Theory										
	ECTS	8	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		R + V (no information on	SWS (weekly contact	hours) and course language a	vailable)			
	Method	d of ass		prox. (to 10 p Asses nound 2009.	30 minutes per car bages, time to com sment offered: Wh ced in due form und	ndidate, for modules v iplete: 1 to 4 weeks) o en and how often ass	with less than 4 ECTS credits a r d) presentation/seminar pres	pprox. 20 minute sentation (appro) Ids on the metho	d of assessment and will be an-		
	other p	prerequi		tive de on to a the lee sessm	etails at the beginr assessment. If stud cturer will put their tent in the current	ning of the course. Reg dents have obtained t registration for asses	gistration for the course will be the qualification for admission ssment into effect. Students wl	e considered a de to assessment o ho meet all prere	form students about the respec- eclaration of will to seek admissi- over the course of the semester, quisites will be admitted to as- ents will have to obtain the quali-		

11-RTT-092-m01	Theory of Relativity										
	ECTS	6	Duratior	า	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		R + V	(no information on	SWS (weekly contact hours) and course languag	e available)				
	Methoo	d of ass	essment	prox. to 10 Asses nound 2009.	30 minutes per can pages, time to com ssment offered: Wh ced in due form un	approx. 90 minutes) or b) oral examination of one ndidate, for modules with less than 4 ECTS credit uplete: 1 to 4 weeks) or d) presentation/seminar p then and how often assessment will be offered dep der observance of Section 32 Subsection 3 ASPO t: German, English	s approx. 20 minute presentation (appro. pends on the metho	es) or c) project report (approx. 8 x. 30 minutes) d of assessment and will be an-			
	other p	rerequi		tive de on to the le sessm	etails at the begin assessment. If stu cturer will put thei nent in the current	ust be met to qualify for admission to assessmen ning of the course. Registration for the course wil dents have obtained the qualification for admiss r registration for assessment into effect. Students or in the subsequent semester. For assessment a b assessment anew.	l be considered a de ion to assessment c s who meet all prere	eclaration of will to seek admissi- over the course of the semester, quisites will be admitted to as-			
11-TEP-092-m01	Theoretical Elementary Particle Physics										
	ECTS	8	Duratior	ו	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		R + V (no information on SWS (weekly contact hours) and course language available)							
	Methoo	d of ass	essment	prox. to 10 Asses nound 2009.	30 minutes per can pages, time to com ssment offered: Wh ced in due form un	approx. 90 minutes) or b) oral examination of one ndidate, for modules with less than 4 ECTS credit uplete: 1 to 4 weeks) or d) presentation/seminar p ten and how often assessment will be offered dep der observance of Section 32 Subsection 3 ASPO t: German, English	s approx. 20 minute presentation (appro. pends on the metho	es) or c) project report (approx. 8 x. 30 minutes) d of assessment and will be an-			
	other p	rerequi	sites	tive de on to the le sessm	etails at the begin assessment. If stu cturer will put thei nent in the current	ust be met to qualify for admission to assessmen ning of the course. Registration for the course wil dents have obtained the qualification for admiss r registration for assessment into effect. Students or in the subsequent semester. For assessment a b assessment anew.	l be considered a de ion to assessment c s who meet all prere	eclaration of will to seek admissi- over the course of the semester, quisites will be admitted to as-			

11-TPE-092-m01	Experin	nental	Particle P	hysics		,				
	ECTS	4	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Course	S	_	R + V	(no information of	on SWS (weekly contact	hours) and course lang	guage available)		
	Method	l of ass	essment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English						
	other p	rerequi	sites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.						
11-TPS-092-m01	Particle	e Physi	cs (Standa	ard Mo	del)					
	ECTS	8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Course	S		R + V	(no information of	on SWS (weekly contact	hours) and course lang	guage available)		
	Method of assessment			a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English						
	other prerequisites			Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the 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-AST-092-m01	Theore	tical As	trophysic	S						
	ECTS	6	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Course	S		R + V	(no information o	on SWS (weekly contact	hours) and course lang	guage available)		
	Method	d of ass	essment	ent written examination (approx. 120 minutes)						

Bachelor's with 1 major Physics (2012)	JMU Würzburg • generated 26-Aug-2024 • exam. reg. data record 82 128 - - H 2012	page 44 / 55

11-WWB-102-m01											
	ECTS	3	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V + R	(no information or	SWS (weekly contact	hours) and course language av	/ailable)			
	Methoo	d of ass		prox. to 10 Asses nound 2009.	Language of assessment: German, English						
	other p	orerequi		tive d on to the le sessn	etails at the begin assessment. If stu cturer will put the nent in the current	ning of the course. Reg dents have obtained t r registration for asses	gistration for the course will be he qualification for admission sement into effect. Students wh	considered a de to assessment o no meet all prere	form students about the respec- eclaration of will to seek admissi- over the course of the semester, quisites will be admitted to as- ents will have to obtain the quali-		
11-APP-111-m01	Practical Course Astrophysics										
	ECTS 6 Duratio			I	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Course	S		P (no information on SWS (weekly contact hours) and course language available)							
	Methoo	d of ass		sed. E stand Asses	Experiments that wing of the physics soment offered: Wh ced in due form un	ere not successfully co related contents and r ren and how often ass	ompleted can be repeated once results of the experiment (appro	e. Or b) discussion ox. 20 minutes). ds on the metho	d of assessment and will be an-		
	other p	prerequi		tive d on to the le sessn	etails at the begin assessment. If stu cturer will put the nent in the current	ning of the course. Reg dents have obtained t r registration for asses	gistration for the course will be he qualification for admission sement into effect. Students wh	considered a de to assessment o no meet all prere	form students about the respec- eclaration of will to seek admissi- over the course of the semester, quisites will be admitted to as- ents will have to obtain the quali-		

11-ART-112-m01	General Theor	y of Relativity	/								
	ECTS 4	Duration	1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses	V +	V + R (no information on SWS (weekly contact hours) and course language available)								
	Method of ass	pro to : Ass	ox. 30 minutes per of 10 pages, time to co sessment offered: V unced in due form u	n (approx. 90 minutes) or b) oral examination candidate, for modules with less than 4 ECTS omplete: 1 to 4 weeks) or d) presentation/se When and how often assessment will be offe under observance of Section 32 Subsection 3	5 credits approx. 20 minute minar presentation (appro red depends on the metho	es) or c) project report (approx. 8 x. 30 minutes) of of assessment and will be an-					
	other prerequi	tive on the ses fica	e details at the beg to assessment. If s lecturer will put th ssment in the curre ation for admission	must be met to qualify for admission to asse inning of the course. Registration for the cou tudents have obtained the qualification for a eir registration for assessment into effect. So nt or in the subsequent semester. For assess to assessment anew.	rse will be considered a de admission to assessment o tudents who meet all prere	eclaration of will to seek admissi- over the course of the semester, equisites will be admitted to as-					
11-SRT-112-m01	Special Theory of Relativity										
	ECTS 4	Duration	1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses	V +	R (no information	on SWS (weekly contact hours) and course la	anguage available)						
	Method of ass	pro to : Ass	ox. 30 minutes per of 10 pages, time to co sessment offered: V unced in due form u	n (approx. 90 minutes) or b) oral examination candidate, for modules with less than 4 ECTS omplete: 1 to 4 weeks) or d) presentation/se When and how often assessment will be offe under observance of Section 32 Subsection 3	5 credits approx. 20 minute minar presentation (appro red depends on the metho	es) or c) project report (approx. 8 x. 30 minutes) of of assessment and will be an-					
	other prerequi	tive on the see	e details at the beg to assessment. If s e lecturer will put th ssment in the curre	must be met to qualify for admission to asse inning of the course. Registration for the cou tudents have obtained the qualification for a eir registration for assessment into effect. So nt or in the subsequent semester. For assess to assessment anew.	rse will be considered a de admission to assessment o tudents who meet all prere	eclaration of will to seek admissi- over the course of the semester, equisites will be admitted to as-					

11-DTS-111-m01	Particle	e Radia	tion Deteo	tors							
	ECTS	4	Duratio	n	1 semester	Method of grading	numerical grade	Modul lev	el graduate		
	Course	S		V + Ü	(no information or	SWS (weekly contac	hours) and course la	inguage available)			
	Methoo	d of ass	essment	prox. to 10 Asses noun 2009	30 minutes per ca pages, time to con ssment offered: Wh ced in due form un	ndidate, for modules pplete: 1 to 4 weeks) c nen and how often ass	with less than 4 ECTS or d) presentation/ser sessment will be offer	credits approx. 20 mi ninar presentation (ap red depends on the me	h or oral examination in groups (ap- nutes) or c) project report (approx. 8 oprox. 30 minutes) ethod of assessment and will be an- mic and examination regulations)		
	other prerequisites			tive d on to the le sessr	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- ive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, he lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- essment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- ication for admission to assessment anew.						
11-BXE5-112-m01	Current	t Topics	in Experi	menta	l Physics						
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul lev	el undergraduate		
	Course	S		V + R	no information or	SWS (weekly contact	hours) and course la	nguage available)			
	Method of assessment			prox. on/se	a) written examination (approx. 120 minutes) or b) oral examination of one candidate each or oral examination in groups (ap prox. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentati- on/seminar presentation (approx. 30 minutes) Language of assessment: German or English						
	other p	other prerequisites			Approval by examination committee required.						
11-BXE6-112-m01	Current	t Topics	in Experi	menta	l Physics						
	ECTS	6	Duratio	n	1 semester	Method of grading	numerical grade	Modul lev	el undergraduate		
	Course	S		V + R	V + R (no information on SWS (weekly contact hours) and course language available)						
				a) written examination (approx. 120 minutes) or b) oral examination of one candidate each or oral examination in groups (ap prox. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentati- on/seminar presentation (approx. 30 minutes) Language of assessment: German or English							
	other p	rerequi	sites	Approval by examination committee required.							
11-BXE8-112-m01	Current	t Topics	in Experi	menta	l Physics						
	ECTS	8	Duratio		1 semester	Method of grading		Modul lev	el undergraduate		
	Course	-	_			SWS (weekly contact					
	Method of assessment			a) written examination (approx. 120 minutes) or b) oral examination of one candidate each or oral examination in groups (a prox. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Language of assessment: German or English							
	other p	rerequi	sites	Approval by examination committee required.							
									· · · · · · · · · · · · · · · · · · ·		
Bachelor's with 1 major	Physics (201	2)					JMU Würzburg • gener	ated 26-Aug-2024 • exam. reg.	data record 82 128 - - H 2012 page 47 / 55		

Bachelor's with 1 major Physics (2012)
--

11-BXT5-112-m01	Current	t Topics	in Theor	etical F	Physics						
	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V + R	+ R (no information on SWS (weekly contact hours) and course language available)						
	Method	d of asse	essment	prox. on/se	30 minutes per can eminar presentation		eport (approx. 8 to 10 pages, tir		r oral examination in groups (ap- : 1 to 4 weeks) or d) presentati-		
	other p	rerequis	sites	Appro	oval by examination	committee required.					
11-BXT6-112-m01	Current	t Topics	in Theor	etical F	Physics						
	ECTS	6	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V + R	(no information on s	SWS (weekly contact	hours) and course language av	ailable)			
				prox. on/se Langu	30 minutes per can eminar presentation uage of assessment		eport (approx. 8 to 10 pages, tir		r oral examination in groups (ap- : 1 to 4 weeks) or d) presentati-		
11-BXT8-112-m01	Current	t Topics	in Theor	etical F	Physics				~		
	ECTS	8	Duratio		1 semester	Method of grading	-	Modul level	undergraduate		
	Course			V + R (no information on SWS (weekly contact hours) and course language available)							
	Method	d of asse	essment	prox. on/se	30 minutes per can eminar presentation	pprox. 120 minutes) of didate) or c) project re (approx. 30 minutes) : German or English	eport (approx. 8 to 10 pages, tir	ndidate each o ne to complete:	r oral examination in groups (ap- : 1 to 4 weeks) or d) presentati-		
	other p	rerequis	sites	Approval by examination committee required.							
11-DTS-131-m01	Particle	e Radiat	ion Deteo	tors							
	ECTS	4	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S				. ,	hours) and course language av	-			
	Method	d of asse	essment	prox. on/se Asses noun 2009	30 minutes per can eminar presentation ssment offered: Whe ced in due form und	didate) or c) project r (approx. 30 minutes) en and how often asso ler observance of Sec	eport (approx. 8 to 10 pages, tir	ne to complete: Is on the metho	oral examination in groups (ap- : 1 to 4 weeks) or d) presentati- d of assessment and will be an- and examination regulations)		
	other p	rerequis	sites	tive d on to the le	etails at the beginn assessment. If stud cturer will put their	ing of the course. Reg lents have obtained t	istration for the course will be one qualification for admission t sment into effect. Students who	considered a de o assessment o	form students about the respec- eclaration of will to seek admissi- over the course of the semester, quisites will be admitted to as-		

Bachelor's with 1 major Physics (2012)	JMU Würzburg • generated 26-Aug-2024 • exam. reg. data record 82 128 - - H 2012	page 48 / 55

Modules for advan		offered by the Faculty with regard to preparation for Bachelor's thesis and specialisation in Master's programme.								
11-BMT-092-m01	ECTS 6 Duratio	n 1 semester Method of grading numerical grade Modul level graduate								
	Courses	R + V (no information on SWS (weekly contact hours) and course language available)								
		 a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English 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 and will be admitted to assessment in the current or in the subsequent semester. 								
	other prerequisites									
11-LMB-092-m01	Laboratory and Measurement Technology in Biophysics									
	ECTS 6 Duratio	n 1 semester Method of grading numerical grade Modul level graduate								
	Courses	R + V (no information on SWS (weekly contact hours) and course language available)								
	Method of assessment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English								
	other prerequisites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the 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-NOP-092-m01	Nano-C	Optics									
	ECTS 4 Duratio		Duration	1	1 semester Method of grading numerical grade Modul level graduate						
	Course	s		R + V ((no information on	SWS (weekly contact	hours) and course language a	vailable)			
	Methoo	l of asse		a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English							
	other p	prerequis		tive de on to the le sessm	etails at the beginr assessment. If stuc cturer will put their nent in the current	ning of the course. Reg dents have obtained t registration for asses	gistration for the course will be he qualification for admission sment into effect. Students wl	e considered a de to assessment o ho meet all prere	form students about the respec- eclaration of will to seek admissi- over the course of the semester, quisites will be admitted to as- ents will have to obtain the quali-		
11-PKS-092-m01	Physics of Complex Systems										
	ECTS 6 Duratio			1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			R + V (no information on SWS (weekly contact hours) and course language available)							
	Methoo	l of asse		prox. to 10 j Asses nounc 2009.	30 minutes per car pages, time to com ssment offered: Wh ced in due form und	ndidate, for modules v plete: 1 to 4 weeks) of en and how often assi der observance of Sec	vith less than 4 ECTS credits a r d) presentation/seminar pres	pprox. 20 minute sentation (approx Ids on the metho	d of assessment and will be an-		
	other p	prerequis		tive do on to the le sessm	etails at the beginr assessment. If stud cturer will put their nent in the current	ning of the course. Reg dents have obtained t registration for asses	gistration for the course will be he qualification for admission sement into effect. Students wi	e considered a de to assessment o ho meet all prere	form students about the respec- cclaration of will to seek admissi- over the course of the semester, quisites will be admitted to as- ents will have to obtain the quali-		

11-QIC-092-m01	Quantu	m Infor	mation ar	nd Qua	ntum Computing							
	ECTS	5	Duratior	1 I	1 semester	Method of grading	g numerical grade	Modul le	vel	graduate		
	Course	S		R + V (R + V (no information on SWS (weekly contact hours) and course language available)							
	Methoo	l of ass		prox. to 10 p Asses nounc 2009.	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 o 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Assessment: German, English							
	other p	rerequi										
11-SDC-092-m01	Statisti	cs, Dat	a Analysis	s and C	omputer Physics							
	ECTS	4	Duratior	1 I	1 semester	Method of grading	g numerical grade	Modul le	vel	graduate		
	Course	S		R + V ((no information on	SWS (weekly contac	t hours) and course langu	age available)				
				prox. to 10 p Asses nounc 2009. Langu	30 minutes per can pages, time to com sment offered: Wh ced in due form und age of assessment	didate, for modules plete: 1 to 4 weeks) en and how often as ler observance of Se : German, English	with less than 4 ECTS creater or d) presentation/semina sessment will be offered of action 32 Subsection 3 ASF	dits approx. 20 m ar presentation (a depends on the m PO (general acade	inute ppro netho emic	od of assessment and will be an- and examination regulations)		
	other p	other prerequisites Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the r tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek ac on to assessment. If students have obtained the qualification for admission to assessment over the course of the seme the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted t sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the fication for admission to assessment anew.							eclaration of will to seek admissi- over the course of the semester, equisites will be admitted to as-			
11-BXE5-112-m01	Current	Topics	in Experi	mental	l Physics							
	ECTS	5	Duratior	1 I	1 semester	Method of grading	g numerical grade	Modul le	vel	undergraduate		
	Course	S		V + R (no information on SWS (weekly contact hours) and course language available)								
	Method of assessment a) written examination (approx. 120 minutes) or b) oral examination of one candidate each or oral examination prox. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) on/seminar presentation (approx. 30 minutes) Language of assessment: German or English											
	other p	rerequi	sites	Appro	val by examination	committee required	l					

Bachelor's with 1 major Physics (2012)	JMU Würzburg • generated 26-Aug-2024 • exam. reg. data record 82 128 - - H 2012	page 51 / 55

11-BXE6-112-m01	Current To	Current Topics in Experimental Physics									
	ECTS 6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V + R	+ R (no information on SWS (weekly contact hours) and course language available)							
	Method of	fassessment	prox. on/se	30 minutes per car eminar presentation		eport (approx. 8 to 10		or oral examination in groups (ap- :: 1 to 4 weeks) or d) presentati-			
	other prer	equisites	Appro	oval by examination	n committee required.						
11-BXE8-112-m01	Current To	opics in Exper	imenta	l Physics							
	ECTS 8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V + R	(no information on	SWS (weekly contact	hours) and course lan	guage available)				
	Method of	fassessment	prox. on/se Lange	30 minutes per car eminar presentation uage of assessmen	ndidate) or c) project (n (approx. 30 minutes t: German or English	eport (approx. 8 to 10)		or oral examination in groups (ap- : 1 to 4 weeks) or d) presentati-			
	other prer				n committee required.						
11-BXT5-112-m01		opics in Theor		Physics							
	ECTS 5	Duratio		1 semester	Method of grading	-	Modul level	undergraduate			
	Courses			-		hours) and course lan	<u> </u>				
	Method of	fassessment	prox.	30 minutes per car eminar presentation		eport (approx. 8 to 10		or oral examination in groups (ap- : 1 to 4 weeks) or d) presentati-			
	other prer	equisites	Appro	oval by examination	n committee required.						
11-BXT6-112-m01	Current To	opics in Theor	etical	Physics							
	ECTS 6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V + R	(no information on	SWS (weekly contact	hours) and course lan	guage available)				
	Method of	fassessment	prox.	30 minutes per car eminar presentation		report (approx. 8 to 10		or oral examination in groups (ap- :: 1 to 4 weeks) or d) presentati-			
11-BXT8-112-m01		opics in Theor	_	Physics							
	ECTS 8	Duratio		1 semester	Method of grading	-	Modul level	undergraduate			
	Courses					hours) and course lan					
		fassessment	prox. on/se Lange	a) written examination (approx. 120 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Language of assessment: German or English							
	other prer	equisites	Appro	oval by examination	n committee required.						
Bachelor's with 1 major F	Physics (2012)					JMU Würzburg • generat	ed 26-Aug-2024 • exam. reg. data i	record 82 128 - - H 2012 page 52 / 55			

elor's with 1 major Physics (2012)	
------------------------------------	--

Thesis (20 ECTS cr									
	-				on of the overall grade o	f the Bachelor's degree	е.		
11-BA-P-072-m01	ECTS	10 10	Duration		Method of grading	numerical grade	Modul level	undergraduate	
	Course		2 41 41 0	no courses assigned					
	Metho	d of ass	essment	written thesis (approx	k. 25 pages) Jent: German or English				
Subject-specific Ke Modules 11-P-MR a									
Compulsory Cours Modules 11-P-MR a				sfully completed.					
11-HS-092-m01	Advan	ced Sem	ninar Expe	rimental/Theoretical	Physics				
	ECTS	4	Duratio	n 1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Course	25		S (no information on	SWS (weekly contact ho	urs) and course langua	age available)		
			 talk (approx. 30 to 45 minutes) with discussion Assessment offered: When and how often assessment will be offered depends on the nounced in due form under observance of Section 32 Subsection 3 ASPO (general acad 2009. Admission prerequisite to assessment: regular attendance and successful preparation 					and examination regulations)	
		orerequi			te to assessment: regul	ar attendance and suce	cessful preparation of se	minar presentation.	
11-P-MR-092-m01				of Physics					
		6	Duration				mpleted Modul level	undergraduate	
	Course	es		year (winter semester) enmethoden 2 (Mathem	, , ,	, , , , , , , , , , , , , , , , , , , ,	Ü (1 weekly contact hour), once a - Ü (1 weekly contact hour), once a	
	Metho	d of ass	essment	 Topics covered in la or talk (approx. 15 f 2. Topics covered in la ses or talk (approx. Successful completio 2. Students must register 	minutes, usually choser ectures and exercises in . 15 minutes, usually cho n of approx. 50% of pra er for assessment comp	part 1 (Mathematische) or written examinatio part 2 (Mathematisch osen) or written examir ctice work each is a pre onents 1 and 2 online (on (approx. 60 minutes) e Rechenmethoden 2 (M nation (approx. 60 minut erequisite for admission (details to be announced	to assessment components 1 and	
	Referre	ed to in I	LPO I	To pass this module, students must pass both assessment component 1 and assessment component 2. § 53 (1) 1. a) Physik Mechanik, Wärmelehre, Elektrizitätslehre, Optik, der speziellen Relativitätstheorie § 77 (1) 1. a) Physik "Grundlagen der Experimentalphysik"					

Bachelor's with 1 major Physics (2012)	JMU Würzburg • generated 26-Aug-2024 • exam. reg. data record 82 128 - - H 2012	page 53 / 55

11-A1-092-m01	Computational Physics										
	ECTS	6	Duratio	n	1 semester	Method of grading numerical gra	de	Modul level	undergraduate		
	Course	5	•	V + Ü	(no information of	on SWS (weekly contact hours) and cou	urse language av	/ailable)			
	Methoc	l of asse	essment	Asses	sment offered: W ced in due form u	pprox. 120 minutes) /hen and how often assessment will be nder observance of Section 32 Subsec					
	other p	rerequis	sites	tive d on to the le sessr	etails at the begi assessment. If st cturer will put the nent in the currer	nust be met to qualify for admission to nning of the course. Registration for th udents have obtained the qualification eir registration for assessment into effe it or in the subsequent semester. For a to assessment anew.	e course will be n for admission ect. Students wh	considered a de to assessment o o meet all prere	eclaration of will to seek admissi- over the course of the semester, equisites will be admitted to as-		
	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-A2-092-m01	Electro		ĺ								
	ECTS	6	Duratio		1 semester	Method of grading numerical gra		Modul level	undergraduate		
	Course	-		V + Ü (no information on SWS (weekly contact hours) and course language available)							
	Methoo	l 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 p	rerequis	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.							
	Particip cation o			Onlya	as part of pool of	general key skills (ASQ): 15 places. Pla	ices will be alloo	cated by lot.			

11-A3-072-m01	Laboratory and Measurement Technology								
	ECTS 6 Duration		Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses			V + Ü (no information on SWS (weekly contact hours) and course language available)					
	Methoo	l of asse	essment v	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 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-BFSQ5-112-m01	Key Qualifications for Physicists								
	ECTS 5 Duration				1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses			V + R (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment			a) written examination (approx. 120 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Language of assessment: German or English					
	other prerequisites			Approval by examination committee required.					
11-BFSQ6-112-m01	Key Qualifications for Physicists								
	ECTS	6	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses			V + R (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment			a) written examination (approx. 120 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Language of assessment: German or English					
	other prerequisites			Approval by examination committee required.					