

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. raculty	or r hysics and Astronomy	
Abbreviations used:	Course types: E = field trip, K = colloquium, O = conversatorium, P = p = lecture	lacement/lab course, R = project, S = seminar, T = tutorial, Ü = exercise, V
	Term: SS = summer semester, WS = winter semester	
	Methods of grading: NUM = numerical grade, B/NB = (not) successful	ly completed
	Regulations: (L)ASPO = general academic and examination regulation = list of modules	s (for teaching-degree programmes), FSB = subject-specific provisions, SFB
	Other: A = thesis, LV = course(s), PL = assessment(s), TN = participan	ts, VL = prerequisite(s)
Conventions for the modules in this SFB:	Unless otherwise stated, courses and assessments will be held in Ger ditable for bonus.	nan, assessments will be offered every semester and modules are not cre-
Information on assessment procedures:	•	essment, the lecturer will agree with the module coordinator on the me- fter the start of the course at the latest and will communicate this in the
	Should a module comprise more than one graded assessment, all ass	essments will be equally weighted, unless otherwise stated below.
	Should the assessment comprise several individual assessments, suc individual assessments.	cessful completion of the module will require successful completion of all

Examination regulations version: 2008

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

ASPO2007

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

3-Sep-2009 (2009-29)

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

Every module will be described using the following form:

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

Compulsory Course	es (140 ECTS o	credits)										
Experimental Phys	ics (46 ECTS o	redits)										
11-E1-072-m01	Experimenta	al Physics 1	(Mecha	anics, Thermodyna	mics, Waves and Osc	illations)						
	ECTS 8	Duratio	on 1 semester Method of grading		numerical grade	Modul level	undergraduate					
	Courses		V + Ü	(no information on	SWS (weekly contact	hours) and course language	e available)					
	Method of assessment		writte	written examination (approx. 120 minutes)								
11-E2-072-m01	Experimenta	al Physics 2	(Electr	Electrics and Magnetism)								
	ECTS 8	Duration	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		V + Ü	(no information on	SWS (weekly contact	hours) and course language	e available)					
	Method of a	ssessment	writte	n examination (app	orox. 120 minutes)							
11-E3-072-m01	Experimenta	al Physics 3	(Optics	Optics, Quantum Phenomena, Introduction Atomic Physics)								
	ECTS 8	Duration	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		V + Ü	(no information on	SWS (weekly contact	hours) and course language	e available)	·				
	Method of a	ssessment	writte	n examination (app	orox. 120 minutes)							
11-E6-072-m01	Nuclear and	Elementary	Particle Physics									
	ECTS 4	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		V + Ü	(no information on	SWS (weekly contact	hours) and course language	e available)					
	Method of a	ssessment	written examination (approx. 120 minutes)									
11-E7-072-m01	Experimental Physics 7 (Solid State Phenomena [Semiconductor, Superconductivity, Magnetism])											
	ECTS 4	Duration	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		V + Ü	(no information on	SWS (weekly contact	hours) and course language	e available)					
	Method of assessment written examination (approx. 120 minutes)											
11-E5-082-m01	Experimenta	al Physics 5	(Introd	uction to Solid Sta	e Physics)							
	ECTS 8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		V + Ü	(no information on	SWS (weekly contact	hours) and course language	e available)					
	Method of a	ssessment	writte	n examination (app	orox. 120 minutes)							
11-E4-082-m01	Experimenta	al Physics 4	(Physic	cs of Atoms and M	olecules)							
	ECTS 6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		V + Ü	(no information on	SWS (weekly contact	hours) and course language	e available)					
	Method of a	ssessment	writte	n examination (app	prox. 120 minutes)							
Theoretical Physic	s (32 ECTS cre	edits)										
11-T1-072-m01	Theoretical	Physics 1 (T	heoreti	cal Mechanics)								
	ECTS 8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses	,	V + Ü	(no information on	SWS (weekly contact	hours) and course language	e available)					
	Method of a	ssessment	writte	n examination (app	prox. 120 minutes)	· · · · ·						
Bachelor's with 1 major I	Physics (2008)					JMU Würzburg • generated 23-Au	ug-2021 • exam. reg. data	record 82 128 - - H 2008	page 3 / 11			

11-T2-072-m01	Theore	tical Phy	ysics 2 (T	heoret	ical Electrostatics a	nd Elektrodynamics)						
	ECTS	8	Duration	۱	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			V + Ü	/ + Ü (no information on SWS (weekly contact hours) and course language available)							
	Method	d of asse	essment	writte	written examination (approx. 120 minutes)							
11-T3-072-m01	Theore	Theoretical Physics 3 (Theoretical Quantum Mechanics)										
	ECTS	8	Duration	۱	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			V + Ü	V + Ü (no information on SWS (weekly contact hours) and course language available)							
	Method	d of asse	essment	writte	written examination (approx. 120 minutes)							
11-T3F-072-m01	Theorectical Physics 3 FOKUS (Theoretical Quantum Mechanics)											
	ECTS	8	Duration	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			V + Ü (no information on SWS (weekly contact hours) and course language available)								
	Method	d of asse	essment	writte	n examination (appr	ox. 120 minutes)						
11-T4-072-m01	Theore	ctical Pl	hysics 4 (Theore	tical Thermodynami	nics and Statistics)						
	ECTS 8 Duration		Duration	I	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		V + Ü	V + Ü (no information on SWS (weekly contact hours) and course language available)							
	Method	Method of assessment		writte	n examination (appr	ox. 120 minutes)						

11-PGA-PGR-072-	Basic F	Basic Practical Course B for Students of Physics (Bachelor of Science and Teaching Degree)												
m01	ECTS	6	Duratior		1 semester		(not) successfully complete	d Modul level	undergraduate					
	Courses			Beispiele aus Mechanik, Wärmelehre und Elektrik (Examples from Mechanics, Thermodynamics and Electricity, BAM): P (2 weekly contact hours) Klassische Physik (Classical Physics, KLP): P (2 weekly contact hours) Elektrizitätslehre und Schaltungen (Electricity and Circuits, ELS): P (2 weekly contact hours)										
	Method of assessment			 Elektrizitation e und Schaltungen (Electricity and Circuits, ELS): P (2 weekly contact nours) This module has the following assessment components Lab course in part 1: 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). Lab course in part 2: 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). Lab course in part 3: 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). Lab course in part 3: 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). Lab course in part 3: 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). Students must register for assessment components 1 through 3 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 successfully complete each of the three courses. To pass this module, students must pass each of the assessment components 1 through 3. To pass this module, students must successfully complete two out of the three courses.										
	other prerequisites			Recommended: 11-PFR										

11-PGB-PGN-072-	Advanced Undergradua	ite Laboratory (Atomic Physics, Nuclear Physics, Basic Semicondutor Circuits)									
m01	ECTS 4 Duration	n 1 semester Method of grading (not) successfully completed Modul level undergraduate									
	Courses	Wellenoptik (Physical Optics, WOP): P (2 weekly contact hours) Atom- und Kernphysik (Atomic and Nuclear Physics, AKP): P (2 weekly contact hours) Computer und Messtechnik (Computers and Measurement Technology, CMT): P (2 weekly contact hours)									
	Method 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 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). 2. Lab course in part 2: 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). 									
		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 successfully complete two out of the three courses. To pass this module, students must pass both assessment component 1 and assessment component 2.									
	Modules successfully completed	11-PFR									
	other prerequisites	Recommended: 11-PGA-PGR									
11-PFB-072-m01	Advanced Practical Course Bachelor										
	ECTS 4 Duration										
	Courses	Fortgeschrittenen-Praktikum Bachelor Theorie (Advanced Practical Course Bachelor Theory): S (1 weekly contact hour) Fortgeschrittenen-Praktikum Bachelor Praxis (Advanced Practical Course Bachelor Practice): P (3 weekly contact hours)									
	Method of assessment	 This module has the following assessment components 1. Seminar: talk (with discussion) demonstrating the students' understanding of the physics-related aspects of the experiments to be prepared (approx. 30 minutes) 2. Lab course: Preparing, performing and evaluating the experiments will be considered successfully completed if a Testat (exam) is passed. Students must prepare an experiment log (8 to 10 pages). Students must register for assessment components 1 and 2 online (details to be announced). 									
		To pass this module, students must pass both assessment component 1 and assessment component 2.									
	Modules successfully completed	11-E1, 11-E2									
	other prerequisites	11-A3									
11-PHS-072-m01	· · · · · · · · · · · · · · · · · · ·	ntal / Theoretical Physics									
	ECTS 2 Duration										
	Courses	S (no information on SWS (weekly contact hours) and course language available)									
	Method of assessment	talk (approx. 30 to 45 minutes) with discussion									

Bachelor's with 1 major Physics (2008)	JMU Würzburg • generated 23-Aug-2021 • exam. reg. data record 82 128 - - H 2008	page 6 / 11

Mathematics (34 E	CTS cred	lits)											
11-MPI3-062-m01	Mather	matics 3	3 for stud	ents of	its of Physics and Engineering								
	ECTS	ECTS 8 Duration		า	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	Courses			(no information on	SWS (weekly contact	hours) and course langu	age available)					
	Method	Method of assessment			written examination (approx. 120 minutes)								
	other prerequisites			to qui cours obtai for as	Admission prerequisite to assessment: successful completion of approx. 50% of exercises. Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.								
10-M-PHY1-072-	Mather	matics f	or Physic	ists 1	1								
mo1	ECTS	10	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		V + Ü	/ + Ü (no information on SWS (weekly contact hours) and course language available)									
	Method of assessment			writte	n examination (90 i	minutes)							
10-M-PHY2-072-	Mathematics for Physicists 2												
m01	ECTS 8 Duratio		Duratio	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		V + Ü (no information on SWS (weekly contact hours) and course language available)										
	Method of assessment			written examination (90 minutes)									
11-MPI4-062-m01	Mathematics 4 for Students of Physics and Engineering												
	ECTS	8	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S		V + Ü	V + Ü (no information on SWS (weekly contact hours) and course language available)								
	Method	d of ass	essment	writte	n examination (app	rox. 120 minutes)							
Module Comprehe	nsive Te	sts (12 B	ECTS cred	its)									
11-PREP-072-m01	Oral Ex	am Exp	erimenta	Physi	cs (Physicists)								
-	ECTS	6	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	Courses		A (no	information on SWS	6 (weekly contact hou	Irs) and course language	available)	•				
	Method	d of ass	essment	oral e	xamination of one of	andidate each (appr	ox. 30 minutes)						
11-PRT-072-m01	Oral Ex	am The	oretical P	hysics	5			,					
	ECTS	6	Duratio	ı	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S		A (no	information on SWS	6 (weekly contact hou	irs) and course language	available)	•				
	Method	d of ass	essment	oral e	xamination of one of	andidate each (appr	ox. 30 minutes)						

Bachelor's with 1 major Physics (2008)	JMU Würzburg • generated 23-Aug-2021 • exam. reg. data record 82 128 - - H 2008	page 7 / 11
--	---	-------------

Compulsory Electiv	ves (10 EC	TS credits)									
Chemistry (10 ECT	5 credits)	l.									
08-CP1-072-m01	Genera	Chemistry f	or Physics	s and Engineers							
	ECTS	10 Dura	tion	1 semester	undergraduate						
	Courses	5	This •	 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-CP1-1-072: 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) 							
	Method	of assessme						ts as specified below. Unless f all individual assessments.			
	 stated otherwise, successful completion of the module will require successful completion of all individual associated of the successful completion of all individual associated of the successful completion of grading: numerical grade written examination (approx. 60 minutes) Assessment in module component o8-CP1-1-072: Basics of General an Inorganic Chemistry 5 ECTS, Method of grading: numerical grade written examination (60 minutes) Assessment in module component o8-CP1-3-072: General and Analytical Chemistry 5 ECTS, Method of grading: (not) successfully completed for each experiment: Vortestate (pre-experiment exams, approx. 10 minutes each), assessment of pra mance (log, 2 to 5 pages), Nachtestate (post-experiment exams, approx. 10 minutes each) Assessment offered: once a year, summer semester Only after successful completion of module component o8-CP1-3. 										
Computer Science											
10-I-EIN-072-m01				ence for Students of							
	ECTS	10 Dura	· · · · · · · · · · · · · · · · · · ·	1 semester	Method of grading		Modul level	undergraduate			
	Courses	5	V + Ü	V + Ü + Ü (no information on SWS (weekly contact hours) and course language available)							
	Method	of assessme		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 pi	rerequisites		Admission prerequisite to assessment: academic requirements to be met in exercises as specified at the beginning of the course.							

10-M-ODE-082-	Ordinary Differential Equations												
mo1		5	Duration		1 semester	Method of grad	ing numorical	grado	Modul level	undergraduate			
	Courses	-	Duration			•	•	-		undergraduate			
			occmont		V + Ü (no information on SWS (weekly contact hours) and course language available)								
	Method	01 855	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 pr	erequi	sites	tive d on to the le sessr	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the 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.								
10-M-NM1-082-	Numerio	al Mat	hematics	1									
m01	ECTS	8	Duratio	ı	1 semester	Method of grad	ng numerical	grade	Modul level	undergraduate			
	Courses		J	V + Ü	(no information of	on SWS (weekly cont	act hours) and	course language	available)				
	Method of assessment			written examination (approx. 90 minutes); if announced by the lecturer, the written examination can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English if agreed upon with the examiner									
	other prerequisites			Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.									
	Referred to in LPO I			§ 73 (1) 5. Mathematik Angewandte Mathematik									
10-M-NM2-082-	Numerical Mathematics 2												
m01	ECTS	5	Duration	۱	1 semester	Method of grad	ng numerical	grade	Modul level	undergraduate			
	Courses			V + Ü	(no information of	on SWS (weekly cont	act hours) and	course language	available)	_			
				written examination (approx. 90 minutes); if announced by the lecturer, the written examination can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English if agreed upon with the examiner									
	other prerequisites			Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.									
	Referred	to in I	POI	§ 73 (1) 5. Mathematik	Angewandte Mathe	matik						

Bachelor's with 1 major Physics (2008)	JMU Würzburg • generated 23-Aug-2021 • exam. reg. data record 82 128 - - H 2008	page 9 / 11

10-M-PRG-082-	Programming course for students of Mathematics and other subjects											
m01	ECTS 3 Duration			1 semester		(not) successfully complete	d Modul level	undergraduate				
	Course	s		P (no information on SWS (weekly contact hours) and course language available)								
	Methoo	d of ass	essment	project in the form of programming exercises (as specified at the beginning of the course) Language of assessment: German, English if agreed upon with the examiner								
	other prerequisites			Admission prerequisite to assessment: regular attendance (attendance monitored, a maximum of one incident of unexcused absence).								
	Referre	d to in	LPO I	§ 73 (1) 5. Mathematik Angewandte Mathematik								
10-M-COM-082-	Computeroriented Mathematics											
m01	ECTS	3	Duration	۱	1 semester	Method of grading	(not) successfully complete	d Modul level	undergraduate			
	Courses			V + Ü (no information on SWS (weekly contact hours) and course language available)								
	Method of assessment			project in the form of programming exercises (as specified at the beginning of the course) Assessment offered: once a year, summer semester Language of assessment: German, English if agreed upon with the examiner								
	other prerequisites			Admission prerequisite to assessment: regular attendance of exercises (attendance monitored, a maximum of one incident of unexcused absence).								
	Referred to in LPO I			§ 73 (1) 5. Mathematik Angewandte Mathematik								
Thesis (10 ECTS cr	edits)											
11-BA-P-072-m01	Bachelor Thesis Physics											
	ECTS 10 Duration			l	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			no courses assigned								
	Method	d of ass	essment	written thesis (approx. 25 pages) Language of assessment: German or English								
Subject-specific K	ey Skills	(14 ECT	S credits)									
11-PFR-072-m01	Measurements and Data Analysis											
	ECTS	2	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		V + Ü	(no information on S	SWS (weekly contact	hours) and course language	available)				
	Method	d of ass	essment	written examination (approx. 120 minutes)								
11-A1-072-m01	Computational Physics											
	ECTS	6	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		V + Ü	(no information on S	SWS (weekly contact	hours) and course language	available)				
	Method of assessment			written examination (approx. 120 minutes)								

Bachelor's with 1 major Physics (2008)	JMU Würzburg • generated 23-Aug-2021 • exam. reg. data record 82 128 - - H 2008	page 10 / 11

11-A3-072-m01	Laboratory and Measurement Technology											
	ECTS 6 Duration		ก	1 semester	Method of grading	g numerical grade	Modul level	undergraduate				
	Courses			V + Ü (no information on SWS (weekly contact hours) and course language available)								
	Method	Method of assessment			written examination (approx. 120 minutes)							
	other p	prerequi	sites	Admission prerequisite to assessment: successful completion of approx. 50% of exercises. Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.								
	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-A4-072-m01	Astrop											
	ECTS	6	Duration		1 semester		g numerical grade	Modul level	undergraduate			
	Course	-		V + S	(no information or	ו SWS (weekly contac	ct hours) and course la	nguage available)				
	Method	d of ass	essment	writte	n examination (ap	prox. 120 minutes)						
				to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment an-ew.								
	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-N1-072-m01	Basics	of Nanc	structure	Techn	ology							
	ECTS	6	Duration	ກ	1 semester	Method of grading	g numerical grade	Modul level	undergraduate			
	Courses		V + S (no information on SWS (weekly contact hours) and course language available)									
	Method	d of ass	essment	written examination (approx. 90 minutes)								
11-A2-081-m01	Electro	nics										
	ECTS 6 Duratio		ก	1 semester	Method of grading	g numerical grade	Modul level	undergraduate				
	Courses			V + Ü (no information on SWS (weekly contact hours) and course language available)								
	Method	d of ass	essment	written examination (approx. 90 minutes)								
11-MKS-082-m01	Introdu	iction C	ourse Ma	thematics								
	ECTS	3	Duration	n	1 semester	Method of grading	g (not) successfully co	ompleted Modul level	undergraduate			
	Courses			V (no information on SWS (weekly contact hours) and course language available)								
	Method of assessment			written examination (approx. 120 minutes)								

Bachelor's with 1 major Physics (2008) JMU Würzburg • generated 23-Aug-2021 • exam. reg. data record 82 128 - - H 2008 page 11 / 11			
	Bachelor's with 1 major Physics (2008)	JMU Würzburg • generated 23-Aug-2021 • exam. reg. data record 82 128 - - H 2008	page 11 / 11