



Annex SFB

Studienfachbeschreibung (subject description, SFB) for the subject Didactics in Physics (Middle School) as Didaktikfach with the degree "Erste Staatsprüfung für das Lehramt für Sonderpädagogik"

Responsible: Faculty of Physics and Astronomy

Examination regulations version: 2015

	Abbreviations used:	Course types: \mathbf{E} = field trip, \mathbf{K} = colloquium, \mathbf{O} = conversatorium, \mathbf{P} = placement/lab course, \mathbf{R} = project, \mathbf{S} = seminar, \mathbf{T} = tutorial, $\ddot{\mathbf{U}}$ = exercise, \mathbf{V} = lecture								
		Term: SS = summer semester, WS = winter semester								
		Methods of grading: NUM = numerical grade, B/NB = (not) successfully completed								
		Regulations: (L)ASPO = general academic and examination regulations (for teaching-degree programmes), FSB = subject-specific provisions, SFB = list of modules								
		Other: A = thesis, LV = course(s), PL = assessment(s), TN = participants, VL = prerequisite(s)								
	Conventions for the modules in this SFB:	Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not cre- ditable for bonus.								
ä	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.								

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

LASPO2015

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

20-Oct-2015 (2015-219)

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	o be specified in the form X (y) with course type X abbreviated as specified above and number of weekly contact hours y								
	Method of as	ssessme	ent									
	Only after su completion of		Il if applica	ble								
	Other prereq	uisites	if applica	ble								
	Participants on of places		ocati- if applica	ble								
	Additional in	Iformati	on if applica	ble								
	Referred to in	n LPO I	if applica	ble (examination re	gulations for teachin	g-degree programmes)						

Compulsory Courses (20 ECTS credits) Successful completion of modules worth 20 ECTS credits in each subject selected as Didaktikfach (subject studied with a focus on teaching methodology) is a prerequisite for admission to the Erste Staatsprüfung (First State Examination) in the subject Didaktiken einer Fächergruppe der Mittelschule (Didactics of a Group of Subjects of Mittelschule).

11-L-PD1-152-m01	Physic	Physics Teaching Concepts 1										
	ECTS	2	Duratio	n	1 semester	Method of grading	numerical grade	Мос	dul level	undergraduate		
	Course	es		V (2)								
	Metho	d of ass	essment	amina	a) written examination (approx. 45 minutes) or b) oral examination of one candidate each (approx. 10 minutes) or c) oral ex- amination in groups (groups of 2, approx. 10 minutes per candidate) Language of assessment: German and/or English							
	Referre	ed to in l	-PO I	§ 36 § 38 § 53 § 77	Nr. 1 Nr. 2							
11-L-PD2-152-m01												
	ECTS	3	Duratio	n	1 semester	Method of grading	numerical grade	Мо	dul level	undergraduate		
	Course	es		V (2) ·	+ Ü (1)	•						
	Metho	d of ass	essment	amina	ation in groups (grou	pprox. 45 minutes) or ups of 2, approx. 10 n German and/or Engl	ninutes per candidat			pprox. 10 minutes) or c) oral ex- x. 8 pages)		
	Referred to in LPO I				Nr. 7 Nr. 1 Nr. 2 Nr. 2							
11-L-SP1-152-m01												
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Moo	dul level	undergraduate		
	Course	es		V (3) ·	+ Ü (1)							
	Metho	d of ass	essment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 15 minutes) or c) oral ex- amination in groups (groups of 2, approx. 15 minutes per candidate) Language of assessment: German and/or English								
	Referre	ed to in l	PO I	§ 36 § 38								
11-L-SP2-152-m01	Physic	s 2 for P	Primary ar	nd Sec	ondary General Sch	ool						
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Мос	dul level	undergraduate		
	Course	es		V (3) ·	+ Ü (1)					_		
	Metho	d of ass	essment	amina) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 15 minutes) or c) oral ex- mination in groups (groups of 2, approx. 15 minutes per candidate) anguage of assessment: German and/or English							
	Deferre	ed to in l		§ 36 I	Nr -							
	Referre			§ 38 I								

11-L-SP3-152-m01	11-L-SP3-152-mo1 Physics 3 for Primary and Secondary General School								
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Course	es		V (3) +	- Ü (1)			•	
Method of assessmenta) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 15 minutes) amination in groups (groups of 2, approx. 15 minutes per candidate) Language of assessment: German and/or English									pprox. 15 minutes) or c) oral ex-
	Referre	ed to in L	.PO I	§ 36 l § 38 l					
Freier Bereich (general as well as subject-specific electives) (o-15 ECTS credits) Teaching degree students must take modules worth a total of 15 ECTS credits in the area Freier Bereich (general as well as subject-specific electives) (Section 9 LASPO (general academic and examination regulations for teaching-degree programmes)). To achieve the required number of ECTS credits, students may take any modules from the areas below. Freier Bereich interdisciplinary: The interdisciplinary additional offer for a teaching degree can be found in the respective Annex "Ergänzende Bestimmungen für den "Freien Bereich" im Rahmen des Studiums für ein Lehramt".									

Physics (Freier Bereich (general as well as subject-specific electives) -- subject specific)

11-L-EL1-152-m01	Teaching Seminar Fundamental Principles									
	ECTS	3	Duratio	ı	1 semester	Method of grading (not) successfully con	npleted	Modul level	undergraduate	
	Courses			S (2)						
	Method of assessment			oral e: per ca	a) term paper (approx. 8 pages) or b) presentation (approx. 45 minutes) or c) written examination (approx. 45 minutes) or d) oral examination of one candidate each (approx. 15 minutes) or e) oral examination in groups (groups of 2, approx. 15 minutes oer candidate) .anguage of assessment: German and/or English					
	Referred to in LPO I			§ 22	Nr. 1 h) Nr. 2 f) Nr. 3 f)					
11-L-EL2-152-m01	Selected Topics in Physics Didactics									
	ECTS	3	Duratio	ı	1 semester	Method of grading (not) successfully con	npleted	Modul level	undergraduate	
	Course	Courses								
				oral e per ca	a) term paper (approx. 8 pages) or b) presentation (approx. 45 minutes) or c) written examination (approx. 45 minutes) or d) oral examination of one candidate each (approx. 15 minutes) or e) oral examination in groups (groups of 2, approx. 15 minutes per candidate) Language of assessment: German and/or English					
	Referre	d to in l	-PO I	§ 22	Nr. 1 h) Nr. 2 f) Nr. 3 f)					

LA Sonderpädagogik Didactics in Physics (Middle School) (2015)	JMU Würzburg • generated 30-Mär-2024 • exam. reg. data record L6 873 - - H 2015	page 4 / 8

11-P-VKM-152-m01	Prepar	Preparatory Course Mathematics											
	ECTS 2 Duration		n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate					
	Course	S	_	T (2)	-								
	Method	d of ass	essment		a) exercises (successful completion of approx. 50% of approx. 6 exercise sheets) or b) talk (approx. 15 minutes)								
					Assessment offered: Once a year, winter semester								
	Referre	ed to in l	_PO I		l Nr. 1 h)								
				§ 22 II Nr. 2 f) § 22 II Nr. 3 f)									
11-L-L3B-152-m01	Studen	nt Lab Si	upervisio		_								
	ECTS	2	Duratio		1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate				
	Course	S		P (2)	,	1	·						
	Method of assessment						r b) oral examination of one car ninutes per candidate) or d) ter		pprox. 10 minutes) or c) oral ex-				
	Additional Information						,		x. 6 pages)				
	Referred to in LPO I				his module is designed for students studying at least one subject in the natural sciences.								
					I Nr. 2 f)								
					l Nr. 3 f)								
11-MIND-Ph1-152-	Low Cost - High Impact. Low-budget Experiments for Science Courses (Physics)												
m01	ECTS 2 Duratio			n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate				
	Course	-		S (2)									
	Methoo	d of ass	essment		a) written examination (approx. 45 minutes) or b) oral examination of one candidate each (approx. 10 minutes) or c) oral ex- amination in groups (groups of 2, approx. 20 minutes) or d) term paper (approx. 8 pages)								
	Additio	nal Info	rmation	This r	This module is designed for students studying at least one subject in the natural sciences.								
	Referre	ed to in l	POI		§ 22 Nr. 1 h)								
				§ 22 Nr. 2 f) § 22 Nr. 3 f)									
11-MIND-Ph2-152-	Teachi		nco with k		on-Exhibits (Physic	<u>-c)</u>							
mo1	ECTS	2	Duratio		1 semester		(not) successfully completed	Modul level	undergraduate				
	Course		Duration	S (2)			(not) successibility completed	Modul level	undergraduate				
		-	essment	a) written examination (approx. 45 minutes) or b) oral examination of one candidate each (approx. 10 minutes) or c) oral ex-									
	Method	u ui assi	essment				ninutes) or d) term paper (appr		pprox. 10 minutes) of c) of at ex-				
	Additic	nal Info	rmation	ļ			at least one subject in the nat						
	Referre	d to in l	POI	§ 22	I Nr. 1 h)	, ,	· · ·						
					l Nr. 2 f)								
				§22	I Nr. 3 f)								

11-AP-152-m01	Astrophysics											
	ECTS	6	Duration	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S			/ (2) + R (2) Module taught in: German or English							
	Metho	1 of ass		oral e prese If a w form o the le) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) ral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) resentation/talk (approx. 30 minutes). a written examination was chosen as method of assessment, this may be changed and assessment may instead take the orm of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, ne lecturer must inform students about this by four weeks prior to the original examination date at the latest.							
	Referred to in LPO I			§ 22	22 II Nr. 1 h) 22 II Nr. 2 f) 22 II Nr. 3 f)							
11-ENT-152-m01			nergy Tec	hnolog	gies							
	ECTS	6	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses				V (3) + R (1) Module taught in: German or English							
	Metho	1 of ass		oral e prese If a w form the le Asses	examination in grou entation/talk (appro- ritten examination of an oral examina ecturer must inform ssment offered: On	ups (groups of 2, appro ox. 30 minutes). was chosen as metho tion of one candidate	ox. 30 minutes per ca d of assessment, thi each or an oral exam y four weeks prior to ester	andidate) or d) project rep s may be changed and as	each (approx. 30 minutes) or c) bort (approx. 8 to 10 pages) or e) ssessment may instead take the nethod of assessment is changed, date at the latest.			
	Referred to in LPO I			§ 22	II Nr. 1 h) II Nr. 2 f) II Nr. 3 f)							
11-L-APD-152-m01	Current Topics of Teaching Concepts in Physics											
	ECTS	3	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		S (2) Module taught in: German or English								
	Metho	d of ass	essment	a) written examination (approx. 45 minutes) or b) oral examination of one candidate each (approx. 10 minutes) or c) oral ex- amination in groups (groups of 2, approx. 10 minutes per candidate) or d) term paper (approx. 8 pages) or e) talk (30 to 45 mi- nutes) with discussion								
	Referred to in LPO I			§ 22	II Nr. 1 h) II Nr. 2 f) II Nr. 3 f)							

LA Sonderpädagogik Didactics in Physics (Middle School) (2015)	JMU Würzburg • generated 30-Mär-2024 • exam. reg. data record L6 873 - - H 2015	page 6 / 8

11-L-WPD-152-m01	Scientific Work in Teaching Concepts										
	ECTS	3	Duratio		1 semester	Method of grading	(not) successfully complete	d Modul level	undergraduate		
	Courses			S (2) Modu	ıle taught in: Germ	an or English					
	Method	of ass	essment	talk (30 to 45 minutes)						
	Referred to in LPO I			§ 22	Nr. 1 h) Nr. 2 f) Nr. 3 f)						
11-LX6-152-m01	Current	Topics	s in Physic	-	<u>_</u>						
-	ECTS 6 Duration			n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			V (3)	+ R (1)	•		•			
				oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English							
	other pre	erequi	sites	Appro	oval from examinat	ion committee requir	ed.				
	Referred to in LPO I				Nr. 1 h) Nr. 2 f) Nr. 3 f)						
11-LCS6-152-m01	Selected	d Topio	cs of Phys								
	ECTS /	4	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			V (2)	+ R (1)						
	Method	of ass	essment	oral e prese If a w form the le	examination in grou entation/talk (appr ritten examination of an oral examina ecturer must inform	ups (groups of 2, appr ox. 30 minutes). was chosen as metho tion of one candidate	ox. 30 minutes per candidate od of assessment, this may be each or an oral examination by four weeks prior to the orig) or d) project rep e changed and as in groups. If the m	each (approx. 30 minutes) or c) ort (approx. 8 to 10 pages) or e) sessment may instead take the nethod of assessment is changed, date at the latest.		
	other pre	other prerequisites				ion committee requir					
	Referred			§ 22	Nr. 1 h) Nr. 2 f) Nr. 3 f)	· · ·					

Preparation of a written Hausarbeit (thesis) in accordance with the provisions of Section 29 LPO I (examination regulations for teaching-degree programmes) is a prerequisite for teaching degree students to be admitted to the Erste Staatsprüfung (First State Examination). In accordance with the provisions of Section 29 LPO I, students studying for a teaching degree Mittelschule may write this thesis in the subject Didaktik einer Fächergruppe der Mittelschule (Didactics of a Group of Subjects of Mittelschule),

LA Sonderpädagogik Didactics in Physics (Middle School) (2015)	JMU Würzburg • generated 30-Mär-2024 • exam. reg. data record L6 873 - - H 2015	page 7 / 8

in the subject they selected as Unterrichtsfach (subject studied with a focus on the scientific discipline) or in the subject Erziehungswissenschaften (Educational Science). Pursuant to Section 29 Subsection 1 Sentence 2 LPO I, students may also choose to write an interdisciplinary thesis.

LA Sonderpädagogik	Didactics in Physic	s (Middle School) (2015)