

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: 2018

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 creditable 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 method 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:

LASP02015

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

11-Jul-2018 (2018-47)

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	To 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 o		l if applica	if applicable						
	Other prereq	uisites	if applica	if applicable						
	Participants and allocation of places		ocati- if applica	if applicable						
	Additional information		on if applica	if applicable						
	Referred to in	n LPO I	if applica	if applicable (examination regulations for teaching-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).

schule).												
11-L-PD-172-m01	Physics Teaching Concepts											
	ECTS 5	Duratio	2 semester	Method of grading numerical grade	Modul level	unknown						
	Courses		V (2) + V (2) + Ü (1)		·							
	Method of ass	essment	a) written examination (approx. 60 minutes) or b) oral examination of one candidate each (approx. 15 minutes) or c) oral examination in groups (groups of 2, approx. 15 minutes per candidate) or d) term paper (approx. 8 pages) Language of assessment: German and/or English									
	Referred to in I	PO I	§ 36 Nr. 7 § 38 Nr. 1 § 53 Nr. 2 § 77 Nr. 2									
11-L-SP1-152-m01	Physics 1 for Primary and Secondary General School											
	ECTS 5	Duratio	1 semester	Method of grading numerical grade	Modul level	undergraduate						
	Courses		V (3) + Ü (1)	·	•							
			a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 15 minutes) or c) oral examination in groups (groups of 2, approx. 15 minutes per candidate) Language of assessment: German and/or English									
	Referred to in I		§ 36 Nr. 7 § 38 Nr. 1									
11-L-SP2-152-m01	Physics 2 for Primary and Secondary General School											
	ECTS 5	Duration		Method of grading numerical grade	Modul level	undergraduate						
	Courses		V (3) + Ü (1)									
	Method of ass	essment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 15 minutes) or c) oral examination in groups (groups of 2, approx. 15 minutes per candidate) Language of assessment: German and/or English									
	Referred to in I	PO I	§ 36 Nr. 7 § 38 Nr. 1									
11-L-SP3-152-m01	Physics 3 for P	rimary ar	nd Secondary General School									
	ECTS 5	Duration	1 semester	Method of grading numerical grade	Modul level	undergraduate						
	Courses		V (3) + Ü (1)									
	Method of ass	essment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 15 minutes) or c) oral examination in groups (groups of 2, approx. 15 minutes per candidate) Language of assessment: German and/or English									
	Referred to in I	-P0 I	§ 36 Nr. 7 § 38 Nr. 1									

Extra Skills (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)

(rielei beleich (geheral as weit as subject-specific electives) subject specific)										
11-AP-152-m01	Astrop	hysics								
	ECTS	6	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses			V (2) + R (2) Module taught in: German or English						
	Method of assessment			a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English						
	Referred to in LPO I			§ 22 Nr. 1 h) § 22 Nr. 2 f) § 22 Nr. 3 f)						
11-P-VKM-152-m01	Prepara	atory Co	urse Mat	hematics						
	ECTS	2	Duration	า	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate	
	Course	S	,	T (2)						
	Method	d of asse	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	d to in L	PO I	§ 22 Nr. 1 h) § 22 Nr. 2 f) § 22 Nr. 3 f)						

11-ENT-152-m01	Princip	les of E	nergy Tec	hnolog	gies						
	ECTS	6	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			V (3)				,			
					ıle taught in: Germa						
	Method	d of ass	essment	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Assessment offered: Once a year, winter semester Language of assessment: German and/or English							
	Referred to in LPO I			§ 22 Nr. 1 h) § 22 Nr. 2 f) § 22 Nr. 3 f)							
11-MIND-Ph1-152-	Low Co	st - Hig	h Impact.	Low-budget Experiments for Science Courses (Physics)							
mo1	ECTS 2 Duratio			1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Course	S		S (2)							
	Method of assessment			a) written examination (approx. 45 minutes) or b) oral examination of one candidate each (approx. 10 minutes) or c) oral examination in groups (groups of 2, approx. 20 minutes) or d) term paper (approx. 8 pages)							
	Additional Information			This module is designed for students studying at least one subject in the natural sciences.							
	Referred to in LPO I			§ 22 Nr. 1 h) § 22 Nr. 2 f) § 22 Nr. 3 f)							
11-MIND-Ph2-152-	Teachi	ng Scie	nce with H	Hands-on-Exhibits (Physics)							
mo1	ECTS	2	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Course			S (2)							
	Method of assessment			a) written examination (approx. 45 minutes) or b) oral examination of one candidate each (approx. 10 minutes) or c) oral examination in groups (groups of 2, approx. 20 minutes) or d) term paper (approx. 8 pages)							
	Additio	nal Info	rmation	This r	nodule is designed	for students studying	at least one subject in the na	itural sciences.			
	Referred to in LPO I			§ 22 l	§ 22 Nr. 1 h) § 22 Nr. 2 f) § 22 Nr. 3 f)						

11-L-EL1-152-m01	Teaching Seminar Fundamental Principles											
	ECTS	3	Duration	1	1 semester	Method of grading	(not) successfully com	pleted	Modul level	undergraduate		
	Course	S		S (2)	(2)							
	Method	d of ass	essment	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								
	Referred to in LPO I			§ 22 Nr. 1 h) § 22 Nr. 2 f) § 22 Nr. 3 f)								
11-L-EL2-152-m01	Selected Topics in Physics Didactics											
	ECTS	3	Duration	า	1 semester	Method of grading	(not) successfully com	pleted	Modul level	undergraduate		
	Course	S		S (2)	,							
	Method of assessment			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								
	Referred to in LPO I			§ 22 Nr. 1 h) § 22 Nr. 2 f) § 22 Nr. 3 f)								
11-L-L3B-152-m01	Student Lab Supervision (Physics)											
	ECTS	2	Duration		1 semester	Method of grading	(not) successfully com	pleted	Modul level	undergraduate		
	Course	S		P (2)								
	Method	d of ass	essment	a) written examination (approx. 45 minutes) or b) oral examination of one candidate each (approx. 10 minutes) or c) oral examination in groups (groups of 2, approx. 10 minutes per candidate) or d) term paper (approx. 8 pages)								
	Additio	nal Info	rmation	This module is designed for students studying at least one subject in the natural sciences.								
	Referre	d to in l	PO I	§ 22 Nr. 1 h) § 22 Nr. 2 f) § 22 Nr. 3 f)								
11-L-APD-152-m01	Curren	t Topics	of Teach	ing Co	ncepts in Physics							
	ECTS	3	Duration	า	1 semester	Method of grading	numerical grade		Modul level	undergraduate		
	Courses			S (2) Module taught in: German or English								
	Method	d of ass	essment	amina nutes	a) written examination (approx. 45 minutes) or b) oral examination of one candidate each (approx. 10 minutes) or c) oral examination in groups (groups of 2, approx. 10 minutes per candidate) or d) term paper (approx. 8 pages) or e) talk (30 to 45 minutes) with discussion							
	Referre	d to in l	PO I	§ 22 l	Nr. 1 h) Nr. 2 f) Nr. 3 f)							

11-L-WPD-152-m01	Scientific Work in Teaching Concepts										
	ECTS 3 Duration		1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Course	S		S (2)				-			
					le taught in: Germa	an or English					
			_		o to 45 minutes)			,			
	Referre	d to in	LPO I	§ 22 Nr. 1 h) § 22 Nr. 2 f)							
					Nr. 2 f) Nr. 3 f)						
11-LX6-152-m01	Curren	t Topics	in Physic		1111.) 1)	1					
11 15.0 152 11101		6	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course			V (3) +			3		1		
	other p	orerequi	sites LPO I	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Approval from examination committee required. § 22 II Nr. 1 h)							
1000					§ 22 Nr. 2 f) § 22 Nr. 3 f)						
11-LCS6-152-m01	Selected Topics of Phys					Mathand of avadius	ai al avada	Madulland	Turn damena durata		
	ECTS 4 Duration										
	Courses			V (2) + R (1) a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c)							
	Method of assessment			oral examination (approx. 9 to 12 minutes) or b) oral examination or one candidate each (approx. 3 minutes) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English							
	other p	rerequi	sites	Appro	val from examinati	ion committee required	d.				
Thosis (10 FCTS cra	Referred to in LPO I			§ 22 Nr. 1 h) § 22 Nr. 2 f) § 22 Nr. 3 f)							

Thesis (10 ECTS credits)

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),

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