



Annex SFB

Studienfachbeschreibung (subject description, SFB) for the subject Physics as Unterrichtsfach with the degree "Erste Staatsprüfung für das Lehramt an Mittelschulen"

Responsible: Faculty of Physics and Astronomy

Examination regulations version: 2020

	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)):

19-Feb-2020 (2020-20)

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	on (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	if applicable						
	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)				

Scientific Discipline (54 ECTS credits)

Compulsory Courses (54 ECTS credits)

Classical Physics (23 ECTS credits)

Classical Physics (23 ECIS	creatts)									
11-E-M-152-m01	Classic	Classical Physics 1 (Mechanics)									
	ECTS	8	Duration	1 I	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V (4) + Modu	- Ü (2) le taught in: Ü: Germ	nan or English		<u>.</u>			
	Metho	d of asse	essment	written examination (approx. 120 minutes) Language of assessment: German and/or English							
	other p	rerequis	sites	Admission prerequisite to assessment: completion of exercises (approx. 13 exercise sheets per semester). Students who successfully completed approx. 50% of exercises will qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the semester.							
	Additional Information			Registration: If a student registers for the exercises and obtains the qualification for admission to assessment, this will be considered a declaration of will to seek admission to assessment pursuant to Section 20 Subsection 3 Sentence 4 ASPO (general academic and examination regulations). If the module coordinators subsequently find that the student has obtained the qualification for admission to assessment, they will put the student's registration for assessment into effect. Only those students that meet the respective prerequisites can successfully register for an assessment. Students who did not register for an assessment or whose registration for an assessment was not put into effect will not be admitted to the respective assessment. If a student takes an assessment to which he/she has not been admitted, the grade achieved in this assessment will not be considered.							
	Referred to in LPO I				Nr. 1 a) Nr. 1 a)						

11-E-E-152-m01	Classical Physics 2 (Heat and Electromagnetism)									
	ECTS 8 Duration	n 1 semester Method of grading numerical grade Modul level undergraduate								
	Courses	V (4) + Ü (2) Module taught in: Ü: German or English								
	Method of assessment	written examination (approx. 120 minutes) Language of assessment: German and/or English								
	other prerequisites	Admission prerequisite to assessment: completion of exercises (approx. 13 exercise sheets per semester). Students who successfully completed approx. 50% of exercises will qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the semester.								
	Additional Information	Registration: If a student registers for the exercises and obtains the qualification for admission to assessment, this will be considered a declaration of will to seek admission to assessment pursuant to Section 20 Subsection 3 Sentence 4 ASPO (general academic and examination regulations). If the module coordinators subsequently find that the student has obtained the qualification for admission to assessment, they will put the student's registration for assessment into effect. Only those students that meet the respective prerequisites can successfully register for an assessment. Students who did not register for an assessment or whose registration for an assessment was not put into effect will not be admitted to the respective assessment. If a student takes an assessment to which he/she has not been admitted, the grade achieved in this assessment will not be considered.								
	Referred to in LPO I	§ 53 Nr. 1 a) § 77 Nr. 1 a)								
11-L-OW-172-m01	Optics and Waves									
	ECTS 7 Duration									
	Courses	V (4) + Ü (2) Module taught in: Ü: German or English								
	Method of assessment	written examination (approx. 120 minutes) Registration: If a student registers for the seminar and obtains the qualification for admission to assessment, this will be con- sidered a declaration of will to seek admission to assessment pursuant to Section 20 Subsection 3 Sentence 4 ASPO (general academic and examination regulations). If the module coordinators subsequently find that the student has obtained the qua- lification for admission to assessment, they will put the student's registration for assessment into effect. Only those students that meet the respective prerequisites can successfully register for an assessment. Students who did not register for an as- sessment or whose registration for an assessment was not put into effect will not be admitted to the respective assessment. If a student takes an assessment to which he/she has not been admitted, the grade achieved in this assessment will not be considered. Language of assessment: German and/or English								
	other prerequisites	Admission prerequisite to assessment: completion of exercises (approx. 13 exercise sheets per semester). Students who successfully completed approx. 50% of exercises will qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the semester.								
	Referred to in LPO I	§ 53 Nr. 1 a) § 77 Nr. 1 a)								

LA Mittelschulen Physics (2020)	JMU Würzburg • generated 30-Mär-2024 • exam. reg. data record L7 128 - - H 2020	page 4 / 12

Structure of material (11 ECTS credits)									
11-L-M1-NV-172-	Modern Physic	:S 1							
m01	ECTS 6	Duratio	n	1 semester	Method of grading numerical grade	Modul level	unknown		
	Courses		V (3) -						
				le taught in: Germa					
	Method of asse	essment		n examination (app	rox. 120 minutes) : German and/or English				
	Referred to in L	POI	-	Nr. 1 b)					
11-L-M2-NV-172-	Modern Physic		0))						
m01	ECTS 5	Duratio	n	2 semester	Method of grading numerical grade	Modul level	undergraduate		
	Courses	<u>.</u>	V (4) -		1				
				le taught in: Ü: Gerr					
	Method of asse	essment		a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 20 minutes) Language of assessment: German and/or English					
	Referred to in L	PO I	§ 53 l	§ 53 l Nr. 1 b)					
Computational Met	thods (6 ECTS cr	edits)							
11-M-MR-202-m01	Mathematical Methods of Physics								
	ECTS 6 Duratio		n	2 semester	Method of grading (not) successfully co	ompleted Modul level	undergraduate		
	Courses Method of assessment		V (2) + Ü (2) + V (2) + Ü (2) Module taught in: German or English						
			Exercises (successful completion of approx. 50% of approx. 13 exercise sheets) or Talk (approx. 15 minutes)						
	Referred to in LPO I		§ 53 Nr. 1 a) § 77 Nr. 1 a)						
Laboratory Course	I (9 ECTS credits	5)							
11-P-LA-152-m01	Laboratory Cou	urse Phys	ics A(N	Aechanics, Heat, Ele	ectromagnetism)				
	ECTS 2	Duratio	n	1 semester	Method of grading (not) successfully co	ompleted Modul level	undergraduate		
	Courses		P (2)						
	Method of asse		Prepa pleted comp sics-re the as	practical assignment with talk (approx. 30 minutes) Preparing, performing and evaluating (record of readings or lab report) the experiments will be considered successfully com- pleted if a Testat (exam) is passed. Exactly one experiment that was not successfully completed can be repeated once. After completion of all experiments, talk (with discussion; approx. 30 minutes) to test the candidate's understanding of the phy- sics-related contents of the module. Talks that were not successfully completed can be repeated once. Both components of the assessment have to be successfully completed.					
	Referred to in L	.PO I		Nr. 1 c) Nr. 1 d)					

LA Mittelschulen Physics (2020)	JMU Würzburg • generated 30-Mär-2024 • exam. reg. data record L7 128 - - H 2020	page 5 / 12

11-P-FR1-152-m01	Data and Error Analysis								
_	ECTS 2 Durat	on 1 semester Method of grading (not) successfully completed Modul level undergraduate							
	Courses	V (1) + Ü (1) Module taught in: Ü: German or English							
	Method of assessmen	t written examination (approx. 120 minutes) Language of assessment: German and/or English							
	other prerequisites	Admission prerequisite to assessment: completion of exercises (approx. 13 exercise sheets per semester). Students who successfully completed approx. 50% of exercises will qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the semester.							
	Additional Information	Registration: If a student registers for the exercises and obtains the qualification for admission to assessment, this will be considered a declaration of will to seek admission to assessment pursuant to Section 20 Subsection 3 Sentence 4 ASPO (general academic and examination regulations). If the module coordinators subsequently find that the student has obtained the qualification for admission to assessment, they will put the student's registration for assessment into effect. Only those students that meet the respective prerequisites can successfully register for an assessment. Students who did not register for an assessment or whose registration for an assessment was not put into effect will not be admitted to the respective assessment. If a student takes an assessment to which he/she has not been admitted, the grade achieved in this assessment will not be considered.							
	Referred to in LPO I	§ 53 Nr. 1 c) § 77 Nr. 1 d)							
11-P-LB-152-m01		ysics B (Electricity, Circuits, Atomic and Nuclear Physics)							
	ECTS 5 Durat								
	Courses	P (2) + P (2)							
	Method of assessmen	practical assignment with talk (approx. 30 minutes) Preparing, performing and evaluating (record of readings or lab report) the experiments will be considered successfully com- pleted if a Testat (exam) is passed. Exactly one experiment that was not successfully completed can be repeated once. After completion of all experiments, talk (with discussion; approx. 30 minutes) to test the candidate's understanding of the phy- sics-related contents of the module. Talks that were not successfully completed can be repeated once. Both components of the assessment have to be successfully completed.							
	other prerequisites	Students are highly recommended to complete modules 11-P-LA and 11-P-FR1 prior to completing module 11-P-LB.							
	Referred to in LPO I	<pre>§ 53 Nr. 1 b) (3 LP) and c) (2 LP) § 53 Nr. 1 c) § 77 Nr. 1 d)</pre>							
Laboratory Course	II (5 ECTS credits)								
11-P-DP1-172-m01	Demonstration Labora	itory Course 1							
	ECTS 5 Durat								
	Courses	P (4)							
	Method of assessmen	a) oral examination of one candidate each (approx. 10 minutes) or b) oral examination in groups (groups of 2, approx. 10 mi- nutes per candidate)							
		nutes per candidate) Language of assessment: German and/or English							

LA Mittelschulen P	hysics (2020)	

Teaching (12 ECTS credits)										
Compulsory Courses (12 ECTS credits)										
11-L-PD-172-m01	Physics Teach	Physics Teaching Concepts								
	ECTS 5	Duration	ı	2 semester	Method of grading	numerical grade	Modul level	unknown		
	Courses		V (2) +	+ V (2) + Ü (1)						
	Method of ass	essment	amina) written examination (approx. 60 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) or d) term paper (approx. 8 pages) anguage of assessment: German and/or English						
	Referred to in		§ 38 § 53 § 77	36 Nr. 7 38 Nr. 1 53 Nr. 2 37 Nr. 2						
11-L-PDS-NV-152-	Physics Teach	ing Conce	epts Se	minar						
m01	ECTS 2	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Courses		S (2)							
	Method 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) Language of assessment: German and/or English							
	Referred to in	LPO I	§ 53 Nr. 2							
11-L-L3S-152-m01		reparation	Course (Physics)							
	ECTS 5	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		S (5)							
	Method 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) portfolio (10 to 15 hours total) Language of assessment: German and/or English							
	Referred to in	LPO I	§ 53 l	Nr. 2						
Thesis (4 ECTS credits) Students studying for a teaching degree Mittelschule must complete a practical training in didactics and teaching methodology (studienbegleitendes fachdidaktisches Praktikum) which refers to one of the subjects they selected as vertieft studiertes Fach (subject studied with a focus on the scientific discipline) pursuant to Section 34 Subsection 1 No. 4 LPO I (examination regulations for teaching-degree programmes). The obligatory accompanying tutorial is offered by the respective subject. The ECTS credits obtained are counted in the subject Erziehungswissenschaften pursuant to Section 10 Subsection 3 LASPO (general academic and examination regulations for tea- ching-degree programms).										
11-L-SBPMS-152-				Theory of Classroo						
m01	ECTS 4	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Courses		P (o) +							
	Method of ass		Langu		s) German and/or Engli	ish				
	Referred to in	LPO I	§ 34 I	1 Nr. 4						
LA Mittelschulen Physics	(2020)					JMU Würzburg • generated 30-Mär-20	24 • exam. reg. data r	ecord L7 128 - - H 2020 page 7 / 12		

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) **Teaching Seminar Fundamental Principles** 11-L-EL1-152-m01 ECTS Method of grading (not) successfully completed 3 Duration 1 semester Modul level undergraduate S (2) Courses 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 § 22 || Nr. 1 h) Referred to in LPO I § 22 || Nr. 2 f) § 22 || Nr. 3 f) 11-L-EL2-152-m01 Selected Topics in Physics Didactics Method of grading (not) successfully completed ECTS 3 Duration 1 semester Modul level undergraduate S (2) Courses 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-P-VKM-202-m01 MINT Preparatory Course Mathematical Methods of Physics ECTS Method of grading (not) successfully completed Modul level 3 Duration 1 semester undergraduate $V(1) + \ddot{U}(2)$ Courses Module taught in: German or English Method of assessment 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 Referred to in LPO I § 22 || Nr. 1 h) § 22 || Nr. 2 f) § 22 || Nr. 3 f)

LA Mittelschulen Physics (2020)	JMU Würzburg • generated 30-Mär-2024 • exam. reg. data record L7 128 - - H 2020	page 8 / 12

11-L-L3B-152-m01	Student Lab Supervision (Physics)									
	ECTS	2	Duration	า	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate	
	Course	S		P (2)						
	Method	d of ass	essment						oprox. 10 minutes) or c) oral ex-	
							inutes per candidate) or d) ter		x. 8 pages)	
			rmation			for students studying	at least one subject in the nati	ural sciences.		
	Referre	d to in L	.PO I	-	l Nr. 1 h)					
					§ 22 Nr. 2 f) § 22 Nr. 3 f)					
11-MIND-Ph1-152-	Low Co	st - Hig	h Impact.	-	-	for Science Courses (Physics)			
m01	ECTS	2	Duration	ı	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate	
	Course	S	<u> </u>	S (2)		•		•		
	Method	d of asso	essment						oprox. 10 minutes) or c) oral ex-	
			amination in groups (groups of 2, approx. 20 minutes) or d) term paper (approx. 8 pages)							
	Additio	Additional Information			This module is designed for students studying at least one subject in the natural sciences.					
	Referred to in LPO I				l Nr. 1 h)					
			§ 22 Nr. 2 f) § 22 Nr. 3 f)							
11-MIND-Ph2-152-	Teaching Science with Hands-on-Exhibits (Physics)									
m01	ECTS	2	Duration		1 semester		(not) successfully completed	Modul level	undergraduate	
	Course	S		S (2)				•		
	Method	d of ass	essment	a) wri	tten examination (a	pprox. 45 minutes) or	b) oral examination of one car	didate each (ap	oprox. 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 n	nodule is designed	for students studying	at least one subject in the nati	ural sciences.		
	Referre	d to in L	.PO I		l Nr. 1 h)					
					Nr. 2 f)					
				8 22 1	l Nr. 3 f)					

11-AP-152-m01	Astrophysics										
	ECTS	6	Duratio	ı	1 semester	Method of grading	numerical grade		Modul level	undergraduate	
	Course	S		V (2) + R (2) Module taught in: German or English							
	Metho	l of ass		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							
	Referre	ed to in		§ 22 Nr. 1 h) § 22 Nr. 2 f) § 22 Nr. 3 f)							
11-ENT-152-m01	Princip	les of E	nergy Teo	hnolo	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	d of ass		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) Nr. 2 f) Nr. 3 f)						
11-L-APD-152-m01	Current Topics of Teaching Concepts in Physics										
	ECTS	3	Duratio	1	1 semester	Method of grading	numerical grade		Modul level	undergraduate	
	Courses			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	Nr. 1 h) Nr. 2 f) Nr. 3 f)						

LA Mittelschulen Physics (2020)	JMU Würzburg • generated 30-Mär-2024 • exam. reg. data record L7 128 - - H 2020	page 10 / 12

11-L-WPD-152-m01	Scientific Work in Teaching Concepts										
	ECTS 3 Duratio		Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Courses			S (2) Module taught in: German or English							
	Method	d of ass	essment		30 to 45 minutes)						
	Referre	d to in l		§ 22 Nr. 1 h) § 22 Nr. 2 f) § 22 Nr. 3 f)							
11-LX6-152-m01	Current	t Topics	in Physic								
-		6	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			V (3) ·	+ R (1)		_				
				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							
	other prerequisites			Approval from examination committee required.							
	Referred to in LPO I			§ 22	Nr. 1 h) Nr. 2 f) Nr. 3 f)						
11-LCS6-152-m01	Selected Topics of Physics										
	ECTS	4	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	s		V (2) + R (1)							
	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							
	other prerequisites			Approval from examination committee required.							
	Referred to in LPO I			§ 22 Nr. 1 h) § 22 Nr. 2 f) § 22 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 Mittelschulen Physics (2020) JMU Würzburg • generated 30-Mär-2024 • exam. reg. data record L7/128/-/-/H/2020 page 11 / 12

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.

11-L-HA-MS-	Thesis in Physics Secondary General School									
UF-152-m01	ECTS	10 Duration		1 I		Method of grading	numerical grade	Modul level	undergraduate	
	Courses			No courses assigned to module						
	Metho	d of asso	essment	ges) Langu		German; exceptions) I (examination regulations for pursuant to Section 29 Subsec		e programmes) (approx. 40 pa- amination regulations for tea-	
	Referre	d to in L	PO I	§ 29						

LA Mittelschulen Physics (2020)	JMU Würzburg • generated 30-Mär-2024 • exam. reg. data record L7 128 - - H 2020	page 12 / 12
---------------------------------	---	--------------