



## **Annex SFB**

# Studienfachbeschreibung (subject description, SFB) for the subject Nanostructure Technology as a Master's with 1 major with the degree "Master of Science" (120 ECTS credits)

**Responsible:** Faculty of Physics and Astronomy Examination regulations version: 2016 Abbreviations used: Course types:  $\mathbf{E} = \text{field trip}$ ,  $\mathbf{K} = \text{colloquium}$ ,  $\mathbf{O} = \text{conversatorium}$ ,  $\mathbf{P} = \text{placement/lab course}$ ,  $\mathbf{R} = \text{project}$ ,  $\mathbf{S} = \text{seminar}$ ,  $\mathbf{T} = \text{tutorial}$ ,  $\mathbf{\ddot{U}} = \text{exercise}$ ,  $\mathbf{V}$ = 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) Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not cre-Conventions for the modules in this SFB: ditable for bonus. Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the me-Information on 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 assessment procedures: 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:

#### ASPO2015

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

### 13-Apr-2016 (2016-67) except for mandatory electives 11-MRI-171, 11-SSC-172 added in Fast Track procedure at a later time

### 14-Mar-2018 (2018-20)

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	CTS Durat		(in semesters)	Method of grading		Module level			
	Courses		To be sp	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	ient							
	Only after successful completion of		ul if applic	if applicable						
	Other prerequisites		if applic	if applicable						
	Participants and allocation of places		locati- if applic	if applicable						
	Additional information		ion if applic	if applicable						
	Referred to in	n LPO I	if applic	able (examination re	gulations for teachin	g-degree programmes)				

Compulsory Electiv	ves (60	ECTS cre	dits)							
Subfield Nanostruc	ture Te	chnology	/ (55 ECT	5 credi	ts)					
Advanced Laborato	ory Cour	se (9 EC	<b>FS</b> credite	5)						
11-P-FM1-161-m01	Advan	ced Labo	oratory Co	ourse M	Aaster Part 1					
	ECTS	3	Duratio	ı	1 semester	Method of grading	(not) successfully com	pleted	Modul level	graduate
	Course	es		P (3)						
	Method of assessment			practi Stude an ex perim modu Langu	practical examination Students must successfully prepare, perform, document (lab notebook) and evaluate (in the form of a scientific publication) In experiment to be considered to have successfully completed this experiment. Students must successfully complete two ex- periments to be considered to have successfully completed this module. Detailed regulations are laid down in the respective nodule description. _anguage of assessment: German and/or English					
	other p	prerequis	sites	Prepa	ration and safety b	riefing.				
11-P-FM2-161-m01	Advan	ced Labo	ratory Co	ourse M	Aaster Part 2					-
	ECTS	3	Duratio	1	1 semester	Method of grading	(not) successfully comp	pleted	Modul level	graduate
	Courses			P (3)						
	Method of assessment			practical examination Students must successfully prepare, perform, document (lab notebook) and evaluate (in the form of a scientific publication) an experiment to be considered to have successfully completed this experiment. Students must successfully complete two ex- periments to be considered to have successfully completed this module. Detailed regulations are laid down in the respective module description. Language of assessment: German and/or English						
	otherp	orerequis	sites	Prepa	ration and safety b	riefing.				
11-P-FM3-161-m01	Advan	ced Labo	oratory Co	ourse N	Aaster Part 3					
	ECTS	3	Duratio	1	1 semester	Method of grading	(not) successfully comp	pleted	Modul level	graduate
	Course	es		P (3)						
	Method of assessment				cal examination ents must successfu periment to be consider ents to be consider le description. uage of assessment	Illy prepare, perform, sidered to have succe ed to have successfu : German and/or Eng	document (lab notebool ssfully completed this e lly completed this modu ish	k) and e xperime Ile. Deta	evaluate (in the ent. Students n ailed regulatior	form of a scientific publication) nust successfully complete two ex- ns are laid down in the respective
	other prerequisites			Preparation and safety briefing.						

11-P-FM4-161-m01	Advanced La	boratory Co	ourse N	Aaster Part 4						
	ECTS 3	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses		P (3)							
	Method of as	ssessment	practi	cal examination						
			Students must successfully prepare, perform, document (lab notebook) and evaluate (in the form of a scientific publication)							
			an ex	an experiment to be considered to have successfully completed this experiment. Students must successfully complete two ex-						
	module description.									
			Langu	age of assessment:	German and/or Eng	lish				
	other prereq	uisites	Prepa	ration and safety br	iefing.					
Advanced Seminar	(5 ECTS credi	ts)								
11-0SN-A-161-m01	Advanced Se	eminar Nan	ostruct	ure Technology A						
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		S (2)				·			
			Modu	le taught in: Germar	n or English					
	Method of assessment		talk w	talk with discussion (30 to 45 minutes)						
	Advanced Se	Language of assessment: German and/or English								
11-03N-D-101-1101					Mathad of grading	numerical grade	Madullaval	graduata		
	ECIS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate		
	courses		Modu	le taught in: Germar	n or English					
	Method of as	ssessment	talk w	ith discussion (30 to	o 45 minutes)					
			Langu	lage of assessment:	German and/or Eng	lish				
Focus Nanostructu	re Technology	/								
11-HNS-161-m01	Optical Prop	erties of Se	emicon	ductor Nanostructur	es					
	ECTS 6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		V (3) ·	+ R (1)	<b> .</b>					
			Modu	le taught in: Germar	n or English					
	Method of as	ssessment	a) wri	tten examination (ap	oprox. 90 to 120 min e candidate each (ar	utes) or				
			c) ora	l examination in gro	ups (groups of 2, ap	prox. 30 minutes per candidate	) or			
			d) pro	ject report (approx.	8 to 10 pages) or					
			e) pre	sentation/talk (app	rox. 30 minutes).					
			form	of an oral examination w	as chosen as metho on of one candidate	d of assessment, this may be c	nanged and ass groups. If the m	sessment may instead take the		
			the le	cturer must inform s	students about this b	by four weeks prior to the origin	al examination	date at the latest.		
			Langu	lage of assessment:	German and/or Eng	lish				
			Asses	sment offered: In th	e semester in which	the course is offered and in the	e subsequent se	emester		

Master's with 1 major Nanostructure Technology (2016)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record 88 224 - - H 2016	page 4 / 22

11-QTH-161-m01	Quantum Transport								
	ECTS 6	Duration	۱	1 semester	Method of grading numerical grade	Modul level	graduate		
	Courses		V (3) + R (1) Module taught in: German or English						
	andidate) or nay be changed and ass ation in groups. If the m ne original examination nd in the subsequent se	sessment may instead take the ethod of assessment is changed, date at the latest. emester							
11-NOP-161-m01	Nano-Optics								
	ECTS 6	Duration	۱	1 semester	Method of grading numerical grade	Modul level	graduate		
	Courses		V (3) - Modu	+ R (1) le taught in: Germa	an 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 instea form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment 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								
11-SPI-161-m01	Spintronics								
	ECTS 6	Duration	۱	1 semester	Method of grading numerical grade	Modul level	graduate		
	Courses		V (3) - Modu	+ R (1) le taught in: Germa	an or English				
	Method of assessmenta) 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 form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment 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 Assessment offered: In the semester in which the course is offered and in the subsequent semester								

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11-BSV-161-m01	Image and Signal Processing in Physics										
	ECTS 6	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses		V (2) + Module	Ü (2) e taught in: Germa	in or English						
	Method of assessmenta) 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 form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment i 										
11-PMM-161-m01	Physics of Adv	anced Ma	aterials								
	ECTS 6	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses		V (3) + Module	R (1) e taught in: Germa	n 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 form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is cha 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										
11-QUI-161-m01	Quantum Infor	mation T	echnolo	gy							
	ECTS 6	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses		V (3) + Module	R (1) e taught in: Germa	in or English		_				
	Method of assessmenta) 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 tak form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is c 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 Assessment offered: In the semester in which the course is offered and in the subsequent semester										

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11-0HL-161-m01	Organic Semiconductors									
	ECTS 6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		V (3) ·	V (3) + R (1)						
			Modu	ile taught in: Germa	an or English	<b>`</b>				
	Method of a	assessment	a) wri	tten examination (a	approx. 90 to 120 min no candidate each (an	utes) or prox_20 minutes) or				
			c) ora	c) oral examination of one candidate each (approx. 30 minutes) of c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or						
			d) pro							
			e) pre	) presentation/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.						
			form							
			the le							
			Langu	anguage of assessment: German and/or English						
08-ELL-SAM-161-	Sonsor and	Actor Mater	rials - E	Sinent onered: In t	and Magnetic Partic					
mo1		Duratio	n	1 semester	Method of grading	numerical grade	Modullevel	graduate		
	Courses	Duratio	V(2)	+ P (2)	Method of grading	numencai giade	Modulievei	giuduate		
	Method of	assessment	a) wri	tten examination (a	annrox oo minutes) o	r				
	meenou or v	assessment	b) ora	b) oral examination of one candidate each (approx. 20 minutes) or						
			c) ora	c) oral examination in groups (groups of 2, approx. 30 minutes per candidate)						
			Langu	Language of assessment: German and/or English Assessment offered: Once a year, summer semester						
			P: cre	P: creditable for bonus						
08-PCM4-161-m01	Ultrafast s	pectroscopy	and qu	antum-control						
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		S (2)	+ Ü (1)						
			Modu	Module taught in: German or English						
	Method of a	assessment	a) wri	a) written examination (approx. 90 minutes) or						
			c) tall	c) talk (approx. 30 minutes)						
			Langu	Language of assessment: German and/or English						
	other prere	quisites	Prior	completion of mod	ules o8-PCM1a and o8	3-PCM1b recommended.				
08-FU-EEW-152-	Electroche	mical Energy	Storag	ge and Conversion						
m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V (2)	+ P (1) + E (1)						
	Method of	assessment	a) ass	sessment and b) Vo	ortestate/Nachtestate	(pre and post-experiment experiment experiment experiment)	amination talks a	pprox. 15 minutes each, log ap-		
			l prox.	5 to 10 pages each	t: German and/or Engl	ish	random examinat	lons), weighted 7:3		
			Asses	ssment offered: On	ce a year, summer ser	nester				

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08-FU-MW-161-	Structu	Structure and Properties of Modern Materials: Experiments vs. Simulations									
m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		V (2)	V(2) + S(1)						
	Method	d of ass	essment	a) tall	k (approx. 30 minu	tes) or					
					al examination of o	ne candidate each (approx. 20 minutes) or					
				c) oral examination in groups (groups of 2, approx. 30 minutes total)							
				Language of assessment: German and/or English Assessment offered: Once a year, winter semester							
11-FPA-161-m01	Visiting	g Resea	rch								
	ECTS	10	Duratio	n		Method of grading numerical grade	Modul level	graduate			
	Course	S	J	R (o)							
	Method	d of ass	essment	proje	ct report (10 to 20 j	pages)					
				Langu	uage of assessmen	t: German and/or English					
	other p	rerequi	sites	Appro	Approval from examination committee required.						
11-EXN5-161-m01	Current	t Topics	in Nanos	tructure Technology							
	ECTS 5 Duratio			n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses			V (2) ·	+ R (2)						
	Method of assessment		written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral ex- amination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentati- on/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	Approval from examination committee required.						
11-EXN6-161-m01	Current	t Topics	in Nanos	tructure Technology							
	ECTS	6	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		V (3) ·	+ R (1)						
	Method of assessment		writte amina on/ta If a w form the le Langu	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral ex- amination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentati- on/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							
1	other p	rerequi	sites	Approval from examination committee required.							

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11-EXN7-161-m01	Current Topics in Nanostructure Technology										
	ECTS	7	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	.s		V (3) ·	(3) + R (1)						
	Metho	d of asse	essment	writte amina	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral ex- amination in groups (groups of 2, approx, 30 minutes per candidate) or project report (approx, 8 to 10 pages) or presentati-						
				on/ta If a wi form o the le Langu	on/talk (approx. 30 minutes). f 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, he 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	orerequis	sites	Appro	oval from examination	on committee require	d.				
11-EXN8-161-m01	Curren	t Topics	in Nanos	tructu	re Technology						
	ECTS	8	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	!S		V (4) ·	(4) + R(2)						
				amina on/ta If a wi form o the le Langu	amination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentati- on/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	orerequis	sites	Approval from examination committee required.							
11-EXN6A-161-m01	Current Topics in Nanostructure Technology										
	ECTS	6	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V (3) ·	V (3) + R (1)						
	Metho	d of asse	essment	writte amina on/ta If a wr form o the le Langu	<i>r</i> ritten examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral ex- mination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentati- n/talk (approx. 30 minutes). If 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, he lecturer must inform students about this by four weeks prior to the original examination date at the latest. anguage of assessment: German and/or English						
1	other p	prerequis	sites	Appro	oval from examination	on committee require	a.				

11-CSFM-161-m01	Advanced Topics in Solid State Physics										
	ECTS	6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V (3) ·	+ R (1)						
	Method	d of ass	essment	a) wri	a) written examination (approx. 90 to 120 minutes) or						
				b) ora	al examination of or	ne candidate each (ap	prox. 30 minutes) or				
				c) ora	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. 20 minutes)						
				a) pro							
				lf a w	If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the						
				form	of an oral examinat	ion of one candidate e	ach or an oral examination	in groups. If the m	ethod of assessment is changed,		
				the le	cturer must inform	students about this b	/ four weeks prior to the ori	ginal examination	date at the latest.		
				Langu	anguage of assessment: German and/or English						
	other p	rerequi	sites	Appro	oval from examinati	on committee require	d.				
11-CSNM-161-m01	Advanc	ed Topi	ics in Nan	ostruc	ture Technology			<u> </u>			
	ECTS	6	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V (3) ·	+ R (1)						
	Method	d of ass	essment	writte	n examination (app	prox. 90 to 120 minute	s) or oral examination of or	ie candidate each (	(approx. 30 minutes) or oral ex-		
				amination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentati-							
				If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the							
				form	form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed,						
				the le	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	oval from examinati	on committee require	d.				
11-CSPM-161-m01	Advanc	ed Topi	ics in Phy	sics							
	ECTS	6	Duration	<u>1</u>	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V (3) + R (1)							
	Method	d of ass	essment	writte	n examination (app	prox. 90 to 120 minute	s) or oral examination of or	ie candidate each (	(approx. 30 minutes) or oral ex-		
				amination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentati-							
				on/talk (approx. 30 minutes).							
				form	IT 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 le	cturer must inform	students about this b	/ four weeks prior to the ori	ginal examination	date at the latest.		
				Langu	Language of assessment: German and/or English						
	other p	rerequi	sites	Appro	oval from examinati	on committee require	d				

11-FK2-161-m01	Solid State Physics 2								
	ECTS 8	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate		
	Courses		V (4) - Modu	⊦ R (2) le taught in: Germa	in or English				
	Method of ass	essment	a) wri b) ora c) ora d) pro e) pre lf a wr form o the le Langu Asses	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 Assessment offered: In the semester in which the course is offered and in the subsequent semester					
11-FKS-161-m01	Solid State Sp	ectrocopy	/						
	ECTS 6	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate		
	Courses		V (3) - Modu	V (3) + R (1) Nodule taught in: German or English					
	Method of ass	essment	<ul> <li>a) written examination (approx. 90 to 120 minutes) or</li> <li>b) oral examination of one candidate each (approx. 30 minutes) or</li> <li>c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or</li> <li>d) project report (approx. 8 to 10 pages) or</li> <li>e) presentation/talk (approx. 30 minutes)</li> <li>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.</li> <li>Language of assessment: German and/or English</li> <li>Assessment offered: In the semester in which the course is offered and in the subsequent semester</li> </ul>						
11-MAG-161-m01	Magnetism								
	ECTS 6	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate		
	Courses		V (3) + R (1) Module taught in: German or English						
	Method of ass	essment	<ul> <li>a) written examination (approx. 90 to 120 minutes) or</li> <li>b) oral examination of one candidate each (approx. 30 minutes) or</li> <li>c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or</li> <li>d) project report (approx. 8 to 10 pages) or</li> <li>e) presentation/talk (approx. 30 minutes).</li> <li>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.</li> <li>Language of assessment: German and/or English</li> <li>Assessment offered: In the semester in which the course is offered and in the subsequent semester</li> </ul>						

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11-HLPH-161-m01	Semiconductor Physics								
	ECTS 6	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate		
	Courses		V (3) ·	(3) + R(1)					
			Modu	Iodule taught in: German or English					
	Method of ass	sessment	a) wri	tten examination (a	pprox. 90 to 120 minutes) or a candidate each (approx, 20 minutes) or				
			c) ora	) oral examination of one candidate each (approx. 30 minutes) of ) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or ) project report (approx. 8 to 10 pages) or ) presentation/talk (approx. 30 minutes).					
			d) pro						
			e) pre						
			form	of an oral examination w	on of one candidate each or an oral examination ir	r groups. If the m	ethod of assessment is changed.		
			the le	le lecturer must inform students about this by four weeks prior to the original examination date at the latest.					
			Langu	lage of assessment:	: German and/or English				
	Tanalariaal O		Asses	ssment offered: In tr	he semester in which the course is offered and in tr	ne subsequent se	emester		
11-TQP-161-m01			nysics	1 comostor	Mothod of grading numerical grade	Madullaval	graduata		
		Duratio	$\frac{1}{1}$		Method of grading Indifience grade	Modul level	gladuate		
	Courses		Modu	Aodule taught in: German or English					
	Method of ass	sessment	a) wri	tten examination (a	pprox. 90 to 120 minutes) or				
			b) ora	c) 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).						
			lf a w	It 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 le	the lecturer must inform students about this by four weeks prior to the original examination date at the latest.					
			Langu	Language of assessment: German and/or English					
			Assessment offered: In the semester in which the course is offered and in the subsequent semester						
11-NDS-161-m01	Low Dimensio	nal Struct	ures						
	ECTS 6	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate		
	Courses		V (3) ·	+ R (1)					
	Method of ass	sessment	a) wri	tten examination (a	pprox. 90 to 120 minutes) or				
			c) ora	l examination in gro	bups (groups of 2, approx, 30 minutes) of	te) or			
			d) pro	oject report (approx.	8 to 10 pages) or				
			e) presentation/talk (approx. 30 minutes)						
			form	of an oral examination v	on of one candidate each or an oral examination ir	r groups. If the m	ethod of assessment is changed.		
			the le	cturer must inform s	students about this by four weeks prior to the origi	nal examination	date at the latest.		
			Langı	lage of assessment	: German and/or English				
	other prerequ	isites	Appro	oval from examination	on committee required.				

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11-TFK-161-m01	Theoretical Solid State Physics								
	ECTS 8	Duration		1 semester	Method of grading numerical grade	Modul level	graduate		
	Courses		V (4) + Modul	R (2) e taught in: Germa	n or English				
	Method of ass	essment a	<ul> <li>a) written examination (approx. 90 to 120 minutes) or</li> <li>b) oral examination of one candidate each (approx. 30 minutes) or</li> <li>c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or</li> <li>d) project report (approx. 8 to 10 pages) or</li> <li>e) presentation/talk (approx. 30 minutes).</li> <li>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.</li> <li>Language of assessment: German and/or English</li> <li>Assessment offered: In the semester in which the course is offered and in the subsequent semester</li> </ul>						
11-SUP-161-m01	Superconduct	ivity							
	ECTS 6	Duration		1 semester	Method of grading numerical grade	Modul level	graduate		
	Courses		V (3) + Modul	R (1) le taught in: Germa	n or English				
	Method of ass	essment i i i i i i i i i i i i i i i i i i i	<ul> <li>a) written examination (approx. 90 to 120 minutes) or</li> <li>b) oral examination of one candidate each (approx. 30 minutes) or</li> <li>c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or</li> <li>d) project report (approx. 8 to 10 pages) or</li> <li>e) presentation/talk (approx. 30 minutes)</li> <li>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 change the lecturer must inform students about this by four weeks prior to the original examination date at the latest.</li> <li>Language of assessment: German and/or English</li> <li>Assessment offered: In the semester in which the course is offered and in the subsequent semester</li> </ul>						
11-QM2-161-m01	Quantum Mechanics II								
	ECTS 8	Duration		1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Courses		V (4) + R (2) Module taught in: German or English						
	Method of ass	essment 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 Assessment offered: In the semester in which the course is offered and in the subsequent semester						

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11-QIC-161-m01	Quantum Information and Quantum Computing										
	ECTS	6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			V(3) + R(1)							
				Modu	lle taught in: German	or English					
	Metho	od 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							
				torm (	form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed,						
				Langu	anguage of assessment: German and/or English						
				Assessment offered: In the semester in which the course is offered and in the subsequent semester							
	Modules successfully completed			11-QM2 or 11-TFK							
11-TDO-161-m01	Thermodynamics and Economics										
	ECTS	6	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Cours	es		V (3) + R (1)							
				Module taught in: German or English							
	Metho	od of ass	essment	a) wri	tten examination (ap	prox. 90 to 120 mini	utes) or				
				b) oral examination of one candidate each (approx. 30 minutes) 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,							
				Lang	age of assessment.	German and/or Engl	ish	atexamination	uale al life lalest.		
				Assessment offered: In the semester in which the course is offered and in the subsequent semester							

11-MRI-171-m01	Advanced Magnetic Resonance Imaging								
	ECTS 6	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate		
	Courses		V (3)	(3) + R(1)					
			Moal						
	Method of as	ssessment	b) ora	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or					
			c) ora	c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or					
			d) pro						
			e) pre	esentation/talk (app	rox. 30 minutes) vas choson as mothod of assossment, this may be	changed and acc	accment may instead take the		
			form	of an oral examination w	on of one candidate each or an oral examination ir	r groups. If the m	ethod of assessment is changed.		
			the le	cturer must inform s	students about this by four weeks prior to the origin	nal examination	date at the latest.		
			Langu	lage of assessment:	German and/or English				
44 556 472 mod	Surface Scie		Asses	sment offered: In th	le semester in which the course is offered and in tr	ie subsequent se	emester		
11-550-1/2-1101	FCTS 6	Duratio	n	1 comostor	Mothod of grading numerical grade	Modul loval	graduato		
	Courses	Duratio	V(2)		Method of glading Indifference glade	Modulievei	graduate		
	Courses		Modu	Adule taught in: English					
	Method of as	ssessment	a) wri	a) written examination (approx. 90 to 120 minutes) or					
			b) ora	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						
			torm	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					
			Langi	Language of assessment: German and/or English					
			Assessment offered: In the semester in which the course is offered and in the subsequent semester						
11-EXP6-161-m01	Current Topics in Physik								
	ECTS 6	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate		
	Courses		V (3)	V (3) + R (1)					
	Method of as	ssessment	a) wri	tten examination (ap	pprox. 90 to 120 minutes) or				
			(D) 0ra	l examination of one	e candidate each (approx. 30 minutes) or	te) or			
			d) project report (approx. 8 to 10 pages) or						
			e) pre	esentation/talk (app	rox. 30 minutes)				
			If a w	ritten examination w	as chosen as method of assessment, this may be	changed and ass	sessment may instead take the		
			the le	cturer must inform s	students about this by four weeks prior to the origin	nal examination	date at the latest.		
			Langu	uage of assessment:	German and/or English				
	other prereq	uisites	Appro	oval from examinatio	on committee required.				

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11-EXP6A-161-m01	Current Topics in Physik									
	ECTS	6	Duratio	n	1 semester	Method of grading numeri	ical grade	Modul level	graduate	
	Course	S		V (3) ·	+ R (1)	· · · · ·		·		
	Method	d of ass	essment	a) wri	a) written examination (approx. 90 to 120 minutes) or					
				b) ora	b) oral examination of one candidate each (approx. 30 minutes) or					
				c) ora	c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or					
				a) pro	a) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 20 minutes)					
				lf a w	If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the					
				form	of an oral examinati	on of one candidate each or a	an oral examination in	groups. If the m	ethod of assessment is changed,	
				the le	cturer must inform	students about this by four w	eeks prior to the origination	al examination of	date at the latest.	
				Langu	Language of assessment: German and/or English					
	other p	rerequi	sites	Appro	oval from examination	on committee required.				
11-EXP5-161-m01	Current	t Topics	in Physil	<b>(</b>		<u> </u>				
	ECTS	5	Duratio	n	1 semester	Method of grading numeri	ical grade	Modul level	graduate	
	Course	S		V (2) ·	+ R (2)					
	Method of assessment			writte amina on/ta If a wi form o the le Langu	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral ex- amination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentati- on/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.					
	other p	rerequi	sites	Appro	oval from examination	on committee required.				
11-EXP7-161-m01	Current	t Topics	in Physil	<						
	ECTS	7	Duratio	n	1 semester	Method of grading numeri	ical grade	Modul level	graduate	
	Course	S	-,	V (3) + R (1)						
	Method of assessment			written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral ex- amination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentati- on/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			Appro	oval from examination	on committee required.				

11-EXP8-161-m01	Current Topics in Physik										
	ECTS 8 Duration			า	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	es		V (4) +	· R (2)						
	Metho	d of asse	essment	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral ex- amination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentati- on/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	prerequis	sites	Appro	val from examinatio	n committee required	J.				
Subfield Non-techn	ical Mi	nor									
10-M-VAN-152-m01	Advan	ced Anal	ysis								
	ECTS	7	Duration	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	es		V (4) + Ü (2)							
	Metho	d of asse	essment	a) writ b) ora c) oral Langu credit	ten examination (ap l examination of one examination in gro age of assessment: able for bonus	pprox. 90 to 180 minu e candidate each (15 t ups (groups of 2, 10 t German and/or Engli	ites, usually chosen) or to 30 minutes) or o 15 minutes per candidate) sh				
10-M=V-	Discrete Mathematics										
DIM-161-m01	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	es		V (3) + Ü (1) Module taught in: German and/or English							
	Method of assessment			a) written examination (approx. 60 to 90 minutes, usually chosen) or b) oral examination of one candidate each (approx. 15 minutes) or c) oral examination in groups (groups of 2, approx. 10 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus							

10-I=PA-161-m01	Analysis and Design of Programs									
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		V (2) ·	+ Ü (2)						
	Method of asse	essment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus							
	Additional Info	rmation	Focus SE,IS,	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE,IS,ES,GE						
10-I-00P-152-m01	<b>Object</b> oriented	d Progran	nming							
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses	•	V (2) ·	+ Ü (2)			8	-		
	Method of asse	essment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus							
	Referred to in L	.PO I	§ 22 II Nr. 3 b)							
10-I-BS-152-m01	<b>Operating Syst</b>	tems								
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V (2) ·	+ Ü (2)						
	Method of asse	essment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus							
10-I=Kl1-161-m01	Artificial Intelli	gence 1								
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		V (2) ·	+ Ü (2)						
	Method of asse	essment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus							
	Additional Info	rmation	Focus AT,SE	ses available for stu ,IS,HCI	dents of the Master's	programme Informatik (Com	puter Science, 12	o ECTS credits):		
	a statute to the Television of the second	(2016)				IMIL Würzburg	-2025 • exam reg data r	ecord 88/224/-/-/H/2016 nage	18/22	

02-EReWi-G-161-	Introduction to Law for Economists										
m01	ECTS 5	Durati	on	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V (3)	V (3) + Ü (2)							
	Method of	assessmen	t writte	en examination (app	rox. 120 minutes)						
			Asse	ssment offered: Usua	ally once a year, wint	er semester					
	Participant	ts and allo-	There	are no restrictions v	with regard to availab	ble places for students of Rechts	swissenschaft (	Law) as well as Bachelor's stu-			
	cation of p	laces	will h	e allocated to stude	nts of the Master's d	Paree programme Economics. S	hould the number	per of available places exceed the			
			numb	number of applications, the remaining places may be allocated to students of other subjects. Should there be more than 10							
			appli	cations, the remainin	ng places will be allo	cated as follows: Students app	lying after not h	aving successfully completed as-			
			sessi	sessment in past years will be given preferential consideration. The remaining places will be allocated by lot. A waiting list will							
02-N-P-W06-152-	German ar	id European	Trade M	Aark Law							
m01	ECTS 3	Durati	on	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V (2)								
	Method of	assessmen	t a) wri	a) written examination (approx. 120 minutes) or							
			b) ora	b) oral examination (approx. 15 minutes) Assessment offered: Isually once a year, summer semester							
	Particinant	ts and allo-	There	There are no restrictions with regard to available places for students of Rechtswissenschaft (Law) as well as Bachelor's stu-							
	cation of p	laces	dents	dents with the minor Privatrecht (Private Law). A total of 20 places will be allocated to students of other subjects. 10 of these							
			will b	will be allocated to students of the Master's degree programme Economics. Should the number of available places exceed the							
			numt	number of applications, the remaining places may be allocated to students of other subjects. Should there be more than 10							
			sessr	sessment in past years will be given preferential consideration. The remaining places will be allocated by lot. A waiting list will							
			be m	be maintained and places re-allocated by lot as they become available.							
02-N-P-W07-152-	Copyright	Law and Fur	damen	tals of Patent Law in	cluding references to	EU Law					
m01	ECTS 2	Durati	on	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V (1)	V (1)							
	Method of	assessmen	a) wr	a) written examination (approx. 120 minutes) or							
				b) oral examination (approx. 15 minutes) Assessment offered: Usually once a year, summer semester							
	Particinant	ts and allo-	There	There are no restrictions with regard to available places for students of Rechtswissenschaft (Law) as well as Bachelor's stu-							
	cation of p	laces	dents	dents with the minor Privatrecht (Private Law). A total of 20 places will be allocated to students of other subjects. 10 of these							
			will b	e allocated to stude	nts of the Master's de	egree programme Economics. S	hould the numb	per of available places exceed the			
			annli	per of applications, the remaining	ne remaining places ng places will be allo	may be allocated to students of cated as follows: Students app	f other subjects lving after not h	aving successfully completed as-			
			sessr	nent in past years wi	ill be given preferenti	al consideration. The remaining	g places will be	allocated by lot. A waiting list will			
			be m	aintained and places	s re-allocated by lot a	s they become available.					

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02-G&Hre-G-161-	Commercial and Business Law for Economists								
m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses		V (3) ·	+ Ü (2)					
	Method of ass	essment	writte	n examination (app	rox. 120 minutes)				
			Asses	sment offered: Usu	ally once a year, sum	mer semester			
	Participants ar cation of place	nd allo- es	There are no restrictions with regard to available places for students of Rechtswissenschaft (Law) as well as Bachelor's stu- dents with the minor Privatrecht (Private Law). A total of 20 places will be allocated to students of other subjects. 10 of these will be allocated to students of the Master's degree programme Economics. Should the number of available places exceed the number of applications, the remaining places may be allocated to students of other subjects. Should there be more than 10 applications, the remaining places will be allocated as follows: Students applying after not having successfully completed as- sessment in past years will be given preferential consideration. The remaining places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.						
11-AP-152-m01	Astrophysics								
	ECTS 6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses		V (2) · Modu	+ R (2) Ile taught in: Germai	n or English				
			<ul> <li>a) written examination (approx. 90 to 120 minutes) or</li> <li>b) oral examination of one candidate each (approx. 30 minutes) or</li> <li>c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or</li> <li>d) project report (approx. 8 to 10 pages) or</li> <li>e) presentation/talk (approx. 30 minutes)</li> <li>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.</li> <li>Language of assessment: German and/or English</li> </ul>						
	Referred to in I	LPO I	§ 22    Nr. 1 h)  § 22    Nr. 2 f)  § 22    Nr. 3 f)						
11-ASM-161-m01	Methods of Ob	oservatior	ial Astronomy						
	ECTS 6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses		V (3) + R (1) Module taught in: German or English						
	Method 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. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester						
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11-ASP-161-m01	Introduction to Space Physics										
	ECTS 6 Durat		Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	es		V (3) ·	+ R (1)	•		•			
				Modu	le taught in: Germa	n or English					
	Metho	d of ass	essment	a) wri	tten examination (a	pprox. 90 to 120 min	utes) or prox_20 minutes) or				
				c) ora	b) oral examination of one candidate each (approx. 30 minutes) or						
				d) pro	oject report (approx.	8 to 10 pages) or		, ,			
				e) pre	esentation/talk (app	orox. 30 minutes).			in the state of the local sector		
				form	ritten examination v of an oral examinati	vas chosen as metho on of one candidate (	d of assessment, this may be cl	nanged and ass groups. If the m	ethod 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							
	Assessment offered: In the semester in which the course is offered and in the subsequent semester										
11-EXZ5-161-m01	Additi	onal Qua	alification	S							
	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	es		V(2) + R(2)							
	Metho	d of ass	essment	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral ex-							
				amination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentati-							
				If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the							
				form	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.						
				the le							
	othorr		aitaa	Approval from examination committee required							
			siles								
11-EAZ6-161-11101			Duration	5	L comoctor	Mathadafaradina	numerical areado	Madullaval	graduata		
	ECIS	0	Duration			Method of grading	numerical grade	Modul level	graduate		
	Course	25		V (3) + K (1)							
	Metho	d of ass	essment	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral ex-							
				on/talk (approx. 30 minutes).							
				lf a w	If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the						
				form	of an oral examinati	on of one candidate of	each or an oral examination in g	groups. If the m	ethod of assessment is changed,		
				l ine le	lage of assessment	: German and/or Engl	ish	atexamination	uale al life lalest.		
	other	orerequi	sites	Approval from examination committee required.							

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11-EXNT6-161-m01	Non-technical Minor Subject										
	ECTS	6	Duratio	ı	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V (3) +	+ R (1)	•		-			
	Metho	d of asso	essment	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral ex- amination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentati- on/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	orerequis	sites	Appro	val from examinatio	n committee required	1.				
Thesis (60 ECTS cro	edits)										
11-FS-N-161-m01	Profes	sional S	pecializa	ion Nanostructure Technology							
	ECTS	15	Duration	า	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses			S (4) Module taught in: German or English							
	Method of assessment			talk with discussion (30 to 45 minutes) Language of assessment: German and/or English							
11-MP-N-161-m01	Scient	ific Meth	ods and	Project	t Management Nano	structure Technology	/				
	ECTS	15	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses			R (4) Module taught in: German or English							
	Metho	d of asse	essment	talk with discussion (30 to 45 minutes) Language of assessment: German and/or English							
11-MA-N-161-m01	Master	<b>Thesis</b>	Nanostru	icture Technology							
	ECTS	30	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		No co	urses assigned to m	odule					
	Metho	d of asse	essment	Maste Langu	er's thesis (750 to 90 lage of assessment:	oo hours total) German and/or Engli	sh				
	Additio	onal Info	rmation	Time	to complete: 6 mont	hs.					