

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: **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:

ASP02015

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	I	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	sessme	ent								
	Only after succompletion of		l if applica	f applicable							
	Other prereq	uisites	if applica	if applicable							
	Participants and allocation of places		cati- if applica	if applicable							
	Additional information		on if applica	if applicable							
	Referred to in	ı LPO I	if applica	if applicable (examination regulations for teaching-degree programmes)							

Compulsory Electiv	es (60 E	CTS cred	dits)									
Subfield Nanostruc	ture Tec	hnology	/ (min. 55	ECTS	credits)							
Advanced Laborato	ry Cour	se (min.	9 ECTS c	redits)								
11-P-FM1-161-m01	Advanc	ed Labo	ratory Co	ourse M	urse Master Part 1							
	ECTS	3	Duratio		1 semester	Method of grading (not	t) successfully completed	Modul level	graduate			
	Course	-		P (3)	9							
				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) an experiment to be considered to have successfully completed this experiment. Students must successfully complete two experiments 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							
		her prerequisites Preparation and safety briefing.										
11-P-FM2-161-m01			- _		Master Part 2			T				
	ECTS	3	Duratio		1 semester	Method of grading (not	t) successfully completed	Modul level	graduate			
	Course			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								
	other p	rerequis	ites	Preparation and safety briefing.								
11-P-FM3-161-m01	Advanc	ed Labo	ratory Co	ourse M	Master Part 3							
	ECTS	3	Duratio		1 semester	Method of grading (not	t) successfully completed	Modul level	graduate			
	Course			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 experiments 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								
	other p	rerequis	ites	Preparation and safety briefing.								

	vanced Laboratory Course Master Part 4											
CTS 3	3 1	Duration)	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
ourses			P (3)									
ethod o	of asses											
			modul	module description.								
			Prepai	Preparation and safety briefing.								
in. 5 EC	TS cred	lits)										
				ure Technology A								
	5 I			1 semester	Method of grading	numerical grade	Modul level	graduate				
ourses												
othod o	of accor							-				
etilou t	JI asses					sh						
dvance	d Semin	ar Nano	structi	ure Technology B			1					
CTS 5 Duration			1	1 semester	Method of grading	numerical grade	Modul level	graduate				
ourses												
ethod o	of asses		talk with discussion (30 to 45 minutes) Language of assessment: German and/or English									
Technol	logy											
ptical P	roperti	es of Se	micono	luctor Nanostructur	es							
CTS ϵ	б I			1 semester	Method of grading	numerical grade	Modul level	graduate				
ourses			Modul	e taught in: Germar								
ethod o	of asses		written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentati-									
			If a wr	itten examination w	as chosen as method	of assessment, this may be cl	hanged and ass	sessment may instead take the				
							. Jabbequeiit se	Silicotor				
	ner pre n. 5 EC vance TS urses ethod c vance TS urses ethod c trs c c c c c c c c c c c c c c c c c c c	ner prerequision. 5 ECTS credivanced Semiral Sethod of assess ethod of assess ethod of assess echnology of tical Propertion TS	ner prerequisites n. 5 ECTS credits) lvanced Seminar Nano TS	ethod of assessment P (3)	primers P (3) P (3	ethod of assessment practical examination Students must successfully prepare, perform, dan experiment to be considered to have success periments to be considered to have successfull module description. Language of assessment: German and/or English Preparation and safety briefing. The prefereduistes Preparation and safety briefing. The properties of S (2) Module taught in: German or English Properties of S (2) Module taught in: German or English Properties of S (2) Module taught in: German or English Properties of S (2) Module taught in: German or English Properties of S (3) Properties of S (4) Properties of S (4) Properties of S (5) Proper	ethod of assessment Students must successfully prepare, perform, document (lab notebook) and an experiment to be considered to have successfully completed this experiments to be considered to have successfully completed this module. Determine the periments to be considered to have successfully completed this module. Determine the periments to be considered to have successfully completed this module. Determine the periments to be considered to have successfully completed this module. Determine the periments to be considered to have successfully completed this module. Determine the periments to be considered to have successfully completed this experiment to be considered to have successfully completed this experiment to the periments to be considered to have successfully completed this experiment to the periments to be considered to have successfully completed this experiment to have successfully prepare, perform, document (lab notebook) and an experiment to be considered to have successfully prepare, perform, document (lab notebook) and an experiment to be considered to have successfully prepare, perform, document (lab notebook) and an experiment to be considered to have successfully prepare, perform, document (lab notebook) and an experiment to be considered to have successfully completed this experiment to have successfully prepare, perform, document (lab notebook) and an experiment to be considered to have successfully completed this experiment to have successfully prepare, performined this module. Determined this experiment to have successfully prepare, perform, document (lab notebook) and an experiment to have successfully prepare successfully prepare successfully prepare successfully prepare successfully prepared to have successfully prepared suc	practical examination Students must successfully prepare, perform, document (lab notebook) and evaluate (in the an experiment to be considered to have successfully completed this experiment. Students in periments to be considered to have successfully completed this module. Detailed regulation module description. Language of assessment: German and/or English Preparation and safety briefing. In semester Method of grading numerical grade Modul level with discussion (30 to 45 minutes) Language of assessment: German and/or English Pethod of assessment I alk with discussion (30 to 45 minutes) Language of assessment: German or English Properties of Semiconductor Ranostructure Technology B TS Duration 1 semester Method of grading numerical grade Modul level Nodule taught in: German or English Properties of Semiconductor Nanostructures TS Duration 1 semester Method of grading numerical grade Modul level Properties of Semiconductor Nanostructures TS Duration 1 semester Method of grading numerical grade Modul level Properties of Semiconductor Nanostructures TS Duration 1 semester Method of grading numerical grade Modul level Properties of Semiconductor Nanostructures TS Duration 1 semester Method of grading numerical grade Modul level Properties of Semiconductor Nanostructures TS Duration 1 semester Method of grading numerical grade Modul level Properties of Semiconductor Nanostructures TS Duration 1 semester Method of grading numerical grade Modul level Properties of Semiconductor Nanostructures Nanostructures Properties of Semiconductor Nanostructures Nanostructures Properties of Semiconductor Nanostructures Nanostructures Nanostructures Properties of Semiconductor Nanostructures Nanostructures				

11-QTH-161-m01	Quantu	ım Tran	sport									
	ECTS	6	Duration	n	1 semester	Method of grading numerical gra	ade	Modul level	graduate			
	Course	S	,		+ R (1) ıle taught in: Germa	n or English						
	Method	d of ass	essment	amin on/ta If a w form the le Asse	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral exmination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). To 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: In the semester in which the course is offered and in the subsequent semester anguage of assessment: German and/or English							
11-NOP-161-mo1	Nano-C	ptics										
	ECTS 6 Duratio			n	1 semester	Method of grading numerical gr	ade	Modul level	graduate			
	Courses				/ (3) + R (1) Module taught in: German or English							
	Method	Method of assessment			a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minuteral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 paperesentation/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. Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German and/or English							
11-SPI-161-m01	Spintro	onics										
	ECTS	6	Duration		1 semester	Method of grading numerical grading	ade	Modul level	graduate			
	Course	Courses			V (3) + R (1) Module taught in: German or English							
	Method of assessment			written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or 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). 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: In the semester in which the course is offered and in the subsequent semester Language of assessment: German and/or English								

11-BSV-161-mo1	Image	and Signal Pı	cessing	in Physics		,					
	ECTS	6 Dura	tion	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		ı + Ü (2) ule taught in: Germa	n or English						
	Method	d of assessmo	amir on/t If a v form the l Asse	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or 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). 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: In the semester in which the course is offered and in the subsequent semester anguage of assessment: German and/or English							
11-PMM-161-mo1	Physics	s of Advanced	Materia	ls							
	ECTS	6 Dura	tion	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		/ (3) + R (1) Module taught in: German or English							
	Method	d of assessmo	amir on/t If a v form the l Asse	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral camination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or 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 chant the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German and/or English							
11-QUI-161-mo1	Quantu	ım Informatio	n Techno	ology							
	ECTS	6 Dura		1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (3) + R (1) Module taught in: German or English							
	Method	d of assessmo	amir on/t If a v form the l Asse	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or 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). 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: In the semester in which the course is offered and in the subsequent semester Language of assessment: German and/or English							

11-OHL-161-m01	Organi	c Semi	conductor	S	-			-				
	ECTS	6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			+ R (1) ule taught in: Geri	man or English						
				oral e prese If a w form the le Asse Lang) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) ral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). The awritten examination was chosen as method of assessment, this may be changed and assessment may instead take the porm 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: In the semester in which the course is offered and in the subsequent semester anguage of assessment: German and/or English							
08-FU-SAM-161-	Sensor	and A	tor Mater	ials - F	unctional Ceram	ics and Magnetic Partic	les					
mo1	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (2)	+ P (2)							
			sessment	amin Asses Lang P: cre	amination in groups (groups of 2, approx. 30 minutes per candidate) Assessment offered: Once a year, summer semester Language of assessment: German and/or English P: creditable for bonus							
o8-PCM4-161-mo1		Ultrafast spectroscopy and quantum-control										
	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (2) + Ü (1) Module taught in: German or English								
	Method of assessment			a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes) Language of assessment: German and/or English								
	other p	rerequ	isites	Prior	completion of mo	odules o8-PCM1a and o	8-PCM1b recommende	d.				
08-FU-EEW-152-	Electro	chemic	al Energy	Stora	ge and Conversio	n						
mo1	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		V (2)	V (2) + P (1) + E (1)							
	Method of assessment			a) assessment and b) Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical assignments (2 to 4 random examinations), weighted 7:3 Assessment offered: Once a year, summer semester Language of assessment: German and/or English								

08-FU-MW-161-	Structu	re and	Propertie	s of M	odern Materials:	Experiments vs. Simula	tions	"	-			
mo1	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	sessment	group Asses	a) talk (approx. 30 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups of 2 (approx. 30 minutes total) Assessment offered: Once a year, winter semester Language of assessment: German and/or English							
11-FPA-161-m01	Visiting	g Resea	arch									
	ECTS	10	Duratio	n		Method of grading	numerical grade	Modul level	graduate			
	Course	S		R (o)		·		,				
	Method	d of ass	sessment		ct report (10 to 20 uage of assessme	pages) ent: German and/or Engl	ish					
	other p	rerequi	isites	Appro	oval from examina	ation committee require	d.					
11-EXN5-161-m01	Current	Topics	s in Nanos	tructu	re Technology	,						
	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (2)	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 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). 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 chang 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	isites	Approval from examination committee required.								
11-EXN6-161-m01	Current	Topics	s in Nanos	tructu	re Technology							
	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	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or 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). 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	isites	Appro	oval from examina	ation committee require	d.					

·	Current	Topics	in Nanos	tructu	re Technology							
,		7	Duration		1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses	5		V (3)	+ R (1)		,	1 -				
	Method	of ass	essment	amin on/ta If a w form the le	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or 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). 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	Appr	oval from examination	on committee required.						
11-EXN8-161-mo1	Current	Topics	in Nanos	tructu	re Technology		"					
	ECTS 8 Duratio			1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses	5		V (4)	+ R (2)	·						
				amination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentat on/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take th 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. Language of assessment: German and/or English								
	other p	rerequi	sites	Approval from examination committee required.								
11-EXN6A-161-m01	Current	Topics	in Nanos	tructu	re Technology							
	ECTS	6	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses	5		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 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). 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	Appr	oval from examination	on committee required.						

L	Advanc	ed Top	ics in Soli	d Stat	e Physics							
	ECTS	6	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S	,	V (3)	+ R (1)		•					
	Method	d of ass	essment	oral e prese If a w form the le) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) ral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). The awritten examination was chosen as method of assessment, this may be changed and assessment may instead take the porm 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. anguage of assessment: German and/or English							
	other p	rerequi	sites	Appr	oval from examination	on committee required.						
11-CSNM-161-mo1	Advanc	ed Top	ics in Nan	ostruc	ture Technology		'					
	ECTS 6 Duration			1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (3)	(3) + R (1)							
				amination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or 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 chang 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			Approval from examination committee required.								
11-CSPM-161-m01	Advanc	ed Top	ics in Phy	sics								
	ECTS	6	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate				
	Course				+ R (1)							
	Method of assessment			written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or 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). 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	Appr	oval from examination	on committee required.						

11-FK2-161-m01	Solid Sta	te Physics 2			1							
	ECTS 8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			+ R (2) µle taught in: Germar	n or English							
FIXC ()		of assessment	amin on/ta If a w form the le Asses Lange	ritten examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or nination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentalk (approx. 30 minutes). a written examination was chosen as method of assessment, this may be changed and assessment may instead to remove an oral examination of one candidate each or an oral examination in groups. If the method of assessment is electurer must inform students about this by four weeks prior to the original examination date at the latest. Assessment offered: In the semester in which the course is offered and in the subsequent semester anguage of assessment: German and/or English								
11-FKS-161-m01		te Spectrocop	у									
	ECTS 6	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			(3) + R (1) lodule taught in: German or English								
		of assessment	amin on/ta If a w form the le	amination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or on/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may inste 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. Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German and/or English								
11-MAG-161-mo1	Magnetis	sm					,					
	ECTS 6	Duratio	_	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			V (3) + R (1) Module taught in: German or English								
	Method o	of assessment	amin on/ta If a w form the le	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or 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). 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: In the semester in which the course is offered and in the subsequent semester Language of assessment: German and/or English								

11-HLPH-161-m01	Semico	nducto	r Physics									
	ECTS	6	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (3) + R (1) Module taught in: German or English								
	Method	d of ass	essment	amina on/ta If a wi form o the le Asses	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or 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). 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: In the semester in which the course is offered and in the subsequent semester Language of assessment: German and/or English							
11-TQP-161-m01			uantum P	hysics								
	ECTS	6	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			V (3) + R (1) Module taught in: German or English							
	Method	d of ass	essment	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral eamination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or 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: In the semester in which the course is offered and in the subsequent semester Language of assessment: German and/or English								
11-NDS-161-mo1	Low Dir	mensio	nal Struct	ures								
	ECTS Course	6 s	Duratio	1 V (3) -	1 semester + R (1)	Method of grading	numerical grade	Modul level	graduate			
			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								
	other p	rerequi	sites	Appro	oval from examinati	on committee required	•					

11-TFK-161-m01	Theore	tical So	lid State	Physic	:s							
	ECTS	8	Duration	n	1 semester	Method of grading numerical gra	ade	Modul level	graduate			
	Course	S			(4) + R (2) Nodule taught in: German or English							
	Method	d of ass	essment	amin on/ta If a w form the le Asses	vritten examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or 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). 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, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Assessment offered: In the semester in which the course is offered and in the subsequent semester anguage of assessment: German and/or English							
11-SUP-161-m01	Superc	onducti	ivity									
	ECTS	6	Duration	1	1 semester	Method of grading numerical gra	ade	Modul level	graduate			
	Course	S			('(3) + R (1) Module taught in: German or English							
	Method	1 01 455	essment	oral e prese If a w form the le Asses	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or d) project report (approx. 30 minutes) or d) project report (approx. 8 to 10 page) 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 is the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German and/or English							
11-QM2-161-m01	Quantu	ım Mec	hanics II									
	ECTS	8	Duration		1 semester	Method of grading numerical gra	ade	Modul level	undergraduate			
	Course	S		V (4) + R (2) Module taught in: German or English								
	Method	1 of ass	essment	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or 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). 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: In the semester in which the course is offered and in the subsequent semester Language of assessment: German and/or English								

11-QIC-161-m01	Quantum Information and Quantum Computing												
	ECTS 6	Duratio	1 semester	Method of grading numerical grade	Modul level	graduate							
	Courses		V (3) + R (1) Module taught in: Gern	V (3) + R (1) Module taught in: German or English									
	Method of a	ssessment	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or 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). 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: In the semester in which the course is offered and in the subsequent semester Language of assessment: German and/or English										
	Modules suc completed	ccessfully	11-QM2 or 11-TFK										
11-TDO-161-mo1	Thermodynamics and Economics												
	ECTS 6	Duratio	1 semester	Method of grading (not) successfully co	ompleted Modul level	graduate							
	Courses		V (3) + R (1) Module taught in: German or English										
	Method of a	ssessment	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: In the semester in which the course is offered and in the subsequent semester Language of assessment: German and/or English										
11-MRI-171-m01	Advanced M	agnetic Res	onance Imaging										
	ECTS 6	Duratio	1 semester	Method of grading numerical grade	Modul level	graduate							
	Courses		V (3) + R (1) Module taught in: Engl	ish									
	Method of a	ssessment	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: In the semester in which the course is offered and in the subsequent semester Language of assessment: German and/or English										

11-SSC-172-m01	Surface	Surface Science												
	ECTS	6	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	S		V (3) + R (1) Module taught in: Englisch										
	Method	d of ass	essment	oral e prese If a w form the le	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: In the semester in which the course is offered and in the subsequent semester Language of assessment: German and/or English									
11-EXP6-161-m01	Current	t Topics	in Physik	(
	ECTS	6	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	S		V (3) ·	+ 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 p			Approval from examination committee required.										
11-EXP6A-161-m01			_ -											
	ECTS Course	6	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate					
			_	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 p	rerequi	isites	Appro	oval from examination	on committee require	d.		_					

11-EXP5-161-m01	Current Topics in Physik											
	ECTS	5	Duration	<u> </u>	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses			V (2)	V (2) + R (2)							
	Method of assessment			amin on/ta If a w form the le	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or 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). 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	isites	Appr	oval from examination	on committee required.						
11-EXP7-161-m01	Curren	t Topics	s in Physil	(
	ECTS 7 Duration		1	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course			-	+ R (1)	rox. 90 to 120 minutes) or oral examination of one						
				amination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or 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	isites	Approval from examination committee required.								
11-EXP8-161-mo1	Current Topics in Physik											
	ECTS	8	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate				
	Course			V(4) + R(2)								
	Method of assessment			written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or 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). 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	isites	Appr	oval from examination	on committee required.						

Subfield Non-techn	ical Min	or (o-5	ECTS cred	lits)									
10-M-VAN-152-m01	Advanc	ed Ana	lysis										
	ECTS 7 Duration			1	1 semester	Method of grading nu	merical grade	Modul level	undergraduate				
	Course	S		V (4)	+ Ü (2)			•					
	Method of assessment			nutes Langu) or c) oral examina		s, usually chosen) or b) ora 2, 10 to 15 minutes per ca		one candidate each (15 to 30 mi-				
10-M=V-	Discret	Discrete Mathematics											
DIM-161-m01	ECTS	5	Duration	1	1 semester	Method of grading nu	merical grade	Modul level	graduate				
	Course			Modu	+ Ü (1) Ile taught in: Germa								
	Method	l of ass	essment	minut Asses Langu	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) Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German or English creditable for bonus								
10-l=PA-161-m01	Analys	Analysis and Design of Programs											
	ECTS	5	Duration	1	1 semester	Method of grading nu	merical grade	Modul level	graduate				
	Course	S		V (2)	+ Ü (2)	•							
	Method of assessment			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 candidate). Language of assessment: German and/or English creditable for bonus									
	Additio	nal Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE,IS,ES,GE									
10-l-00P-152-m01	Object	oriente	d Progran	nming				"					
	ECTS	5	Duration	1	1 semester	Method of grading nu	merical grade	Modul level	undergraduate				
	Course	S		V (2)	+ Ü (2)				•				
	Method of assessment			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 candidate). Language of assessment: German and/or English creditable for bonus									
	Referre	d to in l	-PO I	§ 22 l	l Nr. 3b								

10-l-BS-152-m01	Operating Systems											
	ECTS	5	Duration	ı	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	S		V (2) -	+ Ü (2)							
	Method	d of ass	essment	If ann of one date).	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 candidate). Language of assessment: German and/or English creditable for bonus							
10-l=Kl1-161-m01	Artifici	al Intell	igence 1									
	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (2) -	+ Ü (2)		·					
				of one date). Langu credit	Language of assessment: German and/or English creditable for bonus							
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,SE,IS,HCI								
o2-EReWi-G-161-	Introduction to Law for Economists											
mo1	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course			V (3) + Ü (2)								
	Method	d of ass	essment	written examination (approx. 120 minutes) Assessment offered: Usually once a year, winter semester								
	Participants and allocation of places			There are no restrictions with regard to available places for students of Rechtswissenschaft (Law) as well as Bachelor's students 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 assessment 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.								

02-N-P-W06-152-	German and European Trade Mark Law												
mo1	ECTS	3	Duratio	1	1 semester	Method of grading nume	erical grade	Modul level	undergraduate				
	Course	S		V (2)									
	Method	d of ass	essment			(approx. 120 minutes) or b) o sually once a year, summer so		x. 15 minutes)					
	Particip cation		nd allo- es	dent will b num appl sess	There are no restrictions with regard to available places for students of Rechtswissenschaft (Law) as well as Bachelor's students 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 assessment 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.								
02-N-P-W07-152-	Copyri	Copyright Law and Fundamentals of Patent Law including references to EU Law											
mo1	ECTS	2	Duration	1	1 semester	Method of grading nume	erical grade	Modul level	undergraduate				
	Course	 S	-	V (1)		·		•					
	Method of assessment			a) written examination (approx. 120 minutes) or b) oral examination (approx. 15 minutes) Assessment offered: Usually once a year, summer semester									
	Particip cation		nd allo- es	dent will b num appl sess	There are no restrictions with regard to available places for students of Rechtswissenschaft (Law) as well as Bachelor's students 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 assessment 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.								
02-G&Hre-G-161-	Comme	rcial a	nd Busine	ss Lav	w for Economists			,					
mo1	ECTS	5	Duration	1	1 semester	Method of grading nume	erical grade	Modul level	unknown				
	Course	S		V (3)	+ Ü (2)			,					
	Method	d of ass	essment	written examination (approx. 120 minutes) Assessment offered: Usually once a year, summer semester									
	Participants and allocation of places			dent will k num appl sess	There are no restrictions with regard to available places for students of Rechtswissenschaft (Law) as well as Bachelor's students 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 assessment 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 se	mester	Method of grading numerical grade	Mod	dul level	undergraduate					
	Courses	·		V (2) + R (2) Module taught in: German or English									
	Method o	fassessment	oral exami presentation If a written form of an the lecture	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 t	o in LPO I	§ 22 Nr. 3 § 22 Nr. 3 § 22 Nr. 3	2 f)									
11-ASM-161-mo1	Methods	Methods of Observational Astronomy											
	ECTS 6	Duratio	1 se	mester	Method of grading numerical grade	Mod	dul level	graduate					
	Courses	,	V (3) + R (1) Module taught in: German or English										
	Method o	fassessment	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or 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). 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: In the semester in which the course is offered and in the subsequent semester Language of assessment: German and/or English										
11-ASP-161-m01	Introducti	on to Space P	hysics										
	ECTS 6	Duratio	n 1 se	mester	Method of grading numerical grade	Mod	dul level	graduate					
	Courses	,	V (3) + R (1) Module taught in: German or English										
	Method o	fassessment	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or 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). 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: In the semester in which the course is offered and in the subsequent semester Language of assessment: German and/or English										

11-EXZ5-161-m01	Additional Qualifications												
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		V (2)	+ R (2)	•		•	-				
	Method of assessment			amina on/ta If a w form the le	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or 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). 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-EXZ6-161-m01	Additional Qualifications												
	ECTS	6	Duration	1	1 semester	Method of grading	numerical 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 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). 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									
		rerequi			oval from examina	tion committee require	d.						
11-EXNT6-161-m01	Non-technical Minor Subject												
	ECTS	6	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		V (3)	+ R (1)								
	Method of assessment			amina on/ta If a w form the le	ation in groups (grall lk (approx. 30 minus ritten examination of an oral examination of an oral examination of turer must inforr	oups of 2, approx. 30 inutes). In was chosen as metholation of one candidate	ninutes per candidate) or pro d of assessment, this may be each or an oral examination i y four weeks prior to the orig	oject report (appro e changed and ass in groups. If the m	(approx. 30 minutes) or oral ex- ix. 8 to 10 pages) or presentati- sessment may instead take the ethod of assessment is changed, date at the latest.				
	other p	rerequi	sites	Approval from examination committee required.									
Thesis (60 ECTS cre	edits)												
11-FS-N-161-m01					anostructure Tech								
	ECTS	15	Duration	1	1 semester	Method of grading	(not) successfully complete	d Modul level	graduate				
	Course			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									
Master's with 1 major Na	nostructure	Technolog	y (2016)				JMU Würzburg • generated 20-Okt	t-2023 • exam. reg. data r	ecord 88 224 - - H 2016 page 21 / 22				

11-MP-N-161-mo1	Scienti	Scientific Methods and Project Management Nanostructure Technology										
	ECTS	15	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses			R (4) Modu	t (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-MA-N-161-mo1	Master	Thesis	Nanostru	cture T	echnology							
	ECTS 30 Duration				1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses				No courses assigned to module							
	Method of assessment Master's thesis (750 to 900 hours total) Language of assessment: German and/or English											
	Additio	nal Info	rmation	Time t	o complete: 6 montl	15.						