

## **Annex SFB**

## Studienfachbeschreibung (subject description, SFB) for the subject Quantum 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: 2021

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 Unless other

Master's with 1 major Quantum Technology (2021)

Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not cre-

modules in this SFB: ditable 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)):

28-Apr-2021 (2021-53)

09-Jun-2021 (2021-65)

06-Sep-2022 (2022-57)

This module handbook seeks to render, as accurately as possible, the data that is of statutory relevance according to the examination regulations of the degree subject. However, only the FSB (subject-specific provisions) and SFB (list of modules) in their officially published versions shall be legally binding. In the case of doubt, the provisions on, in particular, module assessments specified in the FSB/SFB shall prevail.

Every module will be described using the following form:

Abbreviation	Module title										
	ECTS		Duration	(in semesters)	Method of grading		Module level				
	Courses		To be	be specified in the form X (y) with course type X abbreviated as specified above and number of weekly contact hours y							
	Method of as	ssessme	ent								
	Only after su completion o		l if appl	if applicable							
	Other prereq	uisites	if appl	if applicable							
	Participants and allocation of places		ocati- if appl	if applicable							
	Additional in	formati	on if appl	icable							
	Referred to in LPO I		if appl	if applicable (examination regulations for teaching-degree programmes)							

<b>Compulsory Electiv</b>	es (60 E	CTS cred	dits)							
Subfield Quantum	Technol	ogy (mir	. 55 ECT	S credi	ts)					
Advanced Laborato	ry Cours	se (min.	9 ECTS c	redits)						
11-P-FM1-161-m01	Advanc	ed Labo	ratory Co	urse N	Naster Part 1					
	ECTS	3	Duratio		1 semester	Method of grading	(not) successfull	y completed	Modul level	graduate
	Course			P (3)						
				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						
		rerequis			ration and safety bri	efing.				
11-P-FM2-161-m01					Master Part 2	I	( )		T.,	
	ECTS	3	Duratio		1 semester	Method of grading	(not) successfully	y completed	Modul level	graduate
	Course			P (3)	1					
	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.						
11-P-FM3-161-m01	Advanc	ed Labo	ratory Co	urse N	Master Part 3					
	ECTS	3	Duratio	1	1 semester	Method of grading	(not) successfully	y 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	Prepa	ration and safety bri	efing.				

11-P-FM4-161-m01	Advanc	ed Labo	ratory Co	urse N	Master Part 4		'-				
	ECTS	3	Duration	ı	1 semester	Method of grading (not) successfully completed	d Modul level	graduate			
	Courses	5		P (3)							
	Method	of asse	essment		cal examination						
				an ex perim modu Langu	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 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	Prepa	ration and safety br	riefing.					
<b>Advanced Seminar</b>	(min. 5 E	CTS cre	dits)								
11-OSN-A-212-m01	Advanc	ed Sem	inar Quai	ntum T	echnology A						
	ECTS 5 Durati				1 semester	Method of grading   numerical grade	Modul level	graduate			
	Courses			S (2) Module taught in: German or English							
				Langu		o 45 minutes) : German and/or English					
11-OSN-B-212-m01	1 Advanced Seminar Quantum Technology B										
	ECTS				1 semester	Method of grading   numerical grade	Modul level	graduate			
	Courses	5		S (2) Module taught in: German or English							
	Method	l of asse	essment	talk with discussion (30 to 45 minutes) Language of assessment: German and/or English							
Focus Nanostructui	e Techn	ology									
11-HNS-161-m01	Optical	Propert	ies of Se	micon	ductor Nanostructu	res					
	ECTS	6	Duration		1 semester	Method of grading   numerical grade	Modul level	graduate			
	Courses				le taught in: Germa						
	Method	l of asse	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 presentate 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.  Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German and/or English							

11-HPH-201-m01	Semico	nductor	r Physics								
	ECTS	6	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S	-		+ R (1) ule taught in: German	n or English		-			
	Method	l of asse	essment	natio (apportion (apportion (appo	written examination (approx. 90-120 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).  To 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. The latest anguage of assessment: German and/or English assessment offered: In the semester in which the course is offered and in the subsequent semester						
11-QTR-201-m01	Quantu	ım Trans	sport					,			
	ECTS 6 Duratio			1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses				(3) + R (1) Module taught in: German or English						
	Method of assessment			natio (apportion of the left tanger) the left tanger)	written examination (approx. 90-120 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 (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 chartelecturer 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-NOP-161-mo1	Nano-0	ptics						,			
	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 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. 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 Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		+ R (1) ule taught in: Germa	n or English						
AL DSV (C) mg:	Method	d of assessment	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 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 analyses of assessment: German and/or English							
11-BSV-161-m01	Image a	and Signal Proce	essing	in Physics							
	ECTS	6 Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		/ (2) + Ü (2) Module taught in: German or English							
	Method	d of assessment	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 camination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentator/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take to form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is chart 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-PMM-161-mo1	Physics of Advanced Materials										
	ECTS	6 Duratio	n	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 assessment	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 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	<b>S</b>	-			-				
	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						
O. F.U. CAM.				oral e prese If a w form the le Asse Lang	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) oresentation/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, he 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 canguage 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)	(2) + P (2)							
			sessment	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			
	Courses			S (2) + $\ddot{U}$ (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)	+ P (1) + E (1)							
	Method of assessment			a) assessment and b) Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log prox. 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	ire and	Propertie	s of M	odern Materials: Ex	periments vs. Simulations						
mo1	ECTS	5	Duration	ı	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (2)	V (2) + S (1)							
	Method	d of ass	essment	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-EXN5-212-m01	Current	t Topics	in Quant	um Te	chnology							
	ECTS	5	Duration	า	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S			+ R (2) ıle taught in: Germa	nn or English						
	method of discission			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	Approval from examination committee required.								
11-EXN6-212-m01	Current Topics in Quantum Technology											
	ECTS	6	Duration	1	1 semester	Method of grading   numerical grade	Modul level	graduate				
	Course	S		V (3) + R (1) Module taught in: German or English								
				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	oval from examinati	on committee required.						

11-EXN7-212-m01	Current	t Topics	in Quant	um Ted	chnology							
	ECTS	7	Duration	ı	1 semester	Method of gra	nding numerical gr	ade	Modul level	graduate		
	Course	S	·	V (3) - Modu	V (3) + R (1) Module taught in: German or English							
				amina on/ta If a wi form o 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 prerequisites			Appro	oval from examin	ation committee re	equired.					
11-EXN8-212-m01	Current	t Topics	s in Quant	um Tec	chnology							
	ECTS 8 Duration			ı	1 semester	Method of gra	nding numerical gr	ade	Modul level	graduate		
	Courses				V (4) + R (2) Module taught in: German or English							
	Method of assessment			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-EXN6A-212-m01	Current Topics in Quantum Technology											
	ECTS	6	Duration		1 semester	Method of gra	nding numerical gr	ade	Modul level	graduate		
	Course	S		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.  Language of assessment: German and/or English								
	other prerequisites			Appro	oval from examin	ation committee re	equired.		,			

11-CSFM-161-mo1	Advanced Top	oics in Solic	d State Physics				,					
	ECTS 6	Duration	1 semester	Method of grading n	umerical grade	Modul level	graduate					
	Courses		V (3) + R (1)			•	•					
			a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English									
	other prerequ		<u> </u>	tion committee required.								
11-CSNM-212-m01			ntum Technology									
	ECTS 6	Duration		Method of grading n	umerical grade	Modul level	graduate					
	Courses		V (3) + R (1) Module taught in: Germ	V (3) + R (1)  Module taught in: German or English								
	Method of as		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 prerequ		Approval from examination committee required.									
11-FK2-201-m01	Solid State P	hysics 2										
	ECTS 8	Duration		Method of grading n	umerical grade	Modul level	graduate					
	Courses		V (4) + R (2) Module taught in: German or English									
	Method of as		written examination (approx. 90-120 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  Assessment offered: In the semester in which the course is offered and in the subsequent semester									
	other prerequ	isites	Approval from examinat	tion committee required.								

11-CSPM-161-mo1	Advanc	ed Topi	ics in Phys	sics									
	ECTS	6	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		V (3) -	'(3) + R (1)								
	Method of assessment			amina on/ta If a wr form of 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	oval from examinat	ion committee require	ed.						
11-FKS-161-m01	Solid S	tate Sp	ectrocopy	•									
	ECTS 6 Duratio			1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses				/ (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 amination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or present on/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 chartelecturer 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-TEFK-201-m01	Topolog	gical Ef	fects in Sc	olid Sta	ate Physics								
	ECTS	8	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			V (4) + R (1) Module taught in: German or English									
	Method of assessment			nation (appro If a win form of the le Langu	n in groups (group) ox. 30 minutes). ritten examination of an oral examina cturer must inform uage of assessmen	s of 2, approx. 30 min was chosen as methotion of one candidate students about this but: German and/or Eng	utes per candidate) or pro od of assessment, this ma each or an oral examinat by four weeks prior to the	oject report (approx. 8 ay be changed and assion in groups. If the m original examination					

11-FFK-201-m01	Field TI	neory ir	Solid Sta	ate Ph	ysics						
	ECTS	8	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S			+ R (2) ıle taught in: Germar	n or English		,			
				natio (appi If a w form the le Lang	written examination (approx. 90-120 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 Assessment offered: In the semester in which the course is offered and in the subsequent semester						
11-AKTF-201-m01	Selecte	ed Topic	s of Theo	retica	Solid State Physics	;		,			
	ECTS 6 Duratio			า	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses				(3) + R (1) Nodule taught in: German or English						
	Method of assessment			natio (appi If a w form the le Lang	written examination (approx. 90-120 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 (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 chartelecturer 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-MAG-161-mo1	Magne	tism									
	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 of assessment			amin on/ta If a w form 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-QM2-161-m01	Quantu	ım Mechanics II									
	ECTS	8 Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	S		+ R (2) ule taught in: Germar	n or English	,					
	Method	l 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 analyses of assessment: German and/or English							
11-TQO-221-m01	Theore	tical Quantum O	ptics								
	ECTS	8 Duratio		1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (4) + R (2) Module taught in: German or English							
	Method	d 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 change 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-TFK-161-m01	Theoretical Solid State Physics										
	ECTS	8 Duratio		1 semester	Method of grading   numerical grade	Modul level	graduate				
	Course	S	V (4) + R (2) Module taught in: German or English								
	Method	l 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-PTS-201-m01	Phenor	nenolo	gy and Th	eory of	f Superconductivity			1			
	ECTS	6	Duratio	n .	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V (3) + R (1) Module taught in: German or English							
	Method of assessmen				written examination (approx. 90-120 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/ta (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-QIC-201-m01	Advanc	ed The	ory of Qua	ntum	Computing and Qua	ntum Information					
	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 of assessment			written examination (approx. 90-120 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 Assessment offered: In the semester in which the course is offered and in the subsequent semester							
11-MRI-171-m01	Advanc	ed Mag	gnetic Res	onanc	e Imaging			,			
	ECTS	6	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V (3) + R (1) Module taught in: English							
	Method of assessment			a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes).  If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.  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	e Scien	ce								
	ECTS	6	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		V (3) + R (1) Module taught in: Englisch							
				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-SPT-211-m01		<u> </u>	be Techno		i			-			
	ECTS	6	Duratio		1 semester	Method of grading   numerical grade	Modul level	graduate			
	Course	S			V (3) + R (1) Module taught in: German or English						
	Method	a or ass	sessment	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-EIM-211-m01	Electro	Electron and Ion Microscopy									
	ECTS	6	Duratio	n	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	sessment	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  Prüfungsturnus: im Semester der LV und im Folgesemester							

11-FPA-161-m01	Visiting Research											
	ECTS	10	Duration	1		Method of grading numerical grade	Modul level	graduate				
	Courses	5		R (o)								
	Method	of ass	essment	project report (10 to 20 pages)								
						: German and/or English						
	other pr	•			Approval from examination committee required.							
11-EXP5-161-m01			in Physil									
	ECTS	5	Duratio		1 semester	Method of grading   numerical grade	Modul level	graduate				
	Courses				+ R (2)							
	Method	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 pr	erequi	sites	Appro	Approval from examination committee required.							
11-EXP6-161-m01	Current Topics in Physik											
	ECTS 6 Duratio			1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses	5		V (3) + R (1)								
	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								
	other pr	rerequi	sites	Approval from examination committee required.								
11-EXP7-161-m01	Current	Topics	in Physil	(								
	ECTS	7	Duratio	1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses	;		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 pr	rerequi	sites	Appro	oval from examination	on committee required.		,				

11-EXP8-161-mo1	Curren	t Topics	in Physil	ζ	-						
	ECTS 8 Duration		1	1 semester	Method of grading numerical gr	rade	Modul level	graduate			
	Course	·S		V (4)	+ R (2)			-			
	Method of assessment			amina on/ta If a w form of 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	other prerequisites			oval from examina	tion committee required.					
11-EXP6A-161-m01		<u> </u>	in Physil	(							
	ECTS	6	Duration	1	1 semester	Method of grading   numerical gr	rade	Modul level	graduate		
	Course			V (3) ·							
	Method of assessment			a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes).  If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.  Language of assessment: German and/or English							
	other prerequisites			Approval from examination committee required.							
Subfield Non-techn	ical Mir	or (0-5	ECTS cred	lits)							
10-M-VAN-152-m01	Advanc	ed Anal	lysis								
	ECTS	7	Duration	า	1 semester	Method of grading   numerical gr	rade	Modul level	undergraduate		
	Course	·S		V (4)	+ Ü (2)						
	Method of assessment		essment	a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate)  Language of assessment: German and/or English creditable for bonus							
10-M=V-	Discret	te Mathe	ematics								
DIM-161-m01	ECTS	5	Duration		1 semester	Method of grading   numerical gr	rade	Modul level	graduate		
	Courses			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) 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	Analysis and Design of Programs												
	ECTS 5	Duration	1 semester	Method of grading numerical grade	Modul level	graduate							
	Courses		V (2) + Ü (2)										
	Method of as	sessment	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										
	Additional In	formation	Focuses available for S SE,IS,ES,GE	students of the Master's programme Informatik	(Computer Science, 120	o ECTS credits):							
10-I-APR-172-m01	Advanced Programming												
	ECTS 5	Duration	1 semester	Method of grading numerical grade	Modul level	undergraduate							
	Courses	<del></del> ;	V (2) + Ü (2)	·									
	Method of as	sessment	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-I-BS-191-m01	Operating Systems												
	ECTS 5	Duration	1 semester	Method of grading numerical grade	Modul level	undergraduate							
	Courses	•	V (2) + Ü (2) Module taught in: Eng	lish	·								
	Method of as	sessment	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	Artificial Inte	lligence 1											
	ECTS 5	Duration	1 semester	Method of grading numerical grade	Modul level	graduate							
	Courses		V (2) + Ü (2)	·									
	Method of as	sessment	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										
	Additional In	formation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,SE,IS,HCI										
Master's with 1 major O	uantum Technology (a	1021)		IMII Wiirzhurg • generated	30-Mär-2024 • exam, reg. data r	record 88 k20 - - H 2021 nage 18 / 22							

02-EReWi-G-161-	Introdu	iction to	Law for I	Econor	mists					
mo1	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Course	:S		V (3)	+ Ü (2)		,			
	Metho	d of ass	essment	written examination (approx. 120 minutes) Assessment offered: Usually once a year, winter semester						
		oants ai of place		dents will b numb appli sessr	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-W06-182-	Trade I	Mark La	w							
mo1	ECTS 3 Duration				1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Course			V (2)						
	Method of assessment			a) written examination (approx. 120 minutes) or b) oral examination (approx. 15 minutes) Assessment offered: Usually once a year, summer semester						
		oants ai of place		schaf with t more not h	t (Law) pursuing the the minor Privatrec than 10 applicatio aving successfully	re no restrictions with regard to available places for ne degree Erste Juristische Staatsprüfung (first state ht (Private Law). A total of 10 places will be allocated in strom students of other subjects, these places wil completed assessment in the past two semesters wated by lot. A waiting list will be maintained and pla	examination in la d to students of c l be allocated as vill be given prefe	aw) as well as Bachelor's students other subjects. Should there be follows: Students applying after trential consideration. The remai-		
02-N-P-W07-182-	Copyri	ght Law	1							
mo1	ECTS	2	Duration	1	1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Course	·S		V (1)						
	Metho	d of ass	essment	a) written examination (approx. 120 minutes) or b) oral examination (approx. 15 minutes) Assessment offered: Usually once a year, summer semester						
	Participants and allocation of places			max. 10 places. There are no restrictions with regard to available places for students of the degree programme Rechtswissenschaft (Law) pursuing the degree Erste Juristische Staatsprüfung (first state examination in law) as well as Bachelor's students with the minor Privatrecht (Private Law). A total of 10 places will be allocated to students of other subjects. Should there be more than 10 applications from students of other subjects, these places will be allocated as follows: Students applying after not having successfully completed assessment in the past two semesters will be given preferential consideration. The remaining places will be allocated by lot. A waiting list will be maintained and places re-allocated as they become available.						

02-G&Hre-G-161-	Commerci	al and Busine	ss Law fo	r Economists							
mo1	ECTS 5	Duratio	1 1	semester	Method of gradin	g numerical grade	Modul level	unknown			
	Courses	•	V (3) + Ü	V (3) + Ü (2)							
	Method of	assessment		written examination (approx. 120 minutes)							
					ually once a year, su		,				
	Participan cation of p	ts and allo- 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.								
11-AP-152-m01	Astrophys	ics									
	ECTS 6	Duratio	1 1	semester	Method of gradin	g numerical grade	Modul level	undergraduate			
	Courses		V (2) + R Module	taught in: Germ	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 instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.  Language of assessment: German and/or English								
	Referred to	o in LPO I	§ 22    Nr. 1 h) § 22    Nr. 2 f) § 22    Nr. 3 f)								
11-ASM-161-m01	Methods of	of Observation	al Astror	nomy							
	ECTS 6	Duratio	1 1	semester	Method of gradin	g numerical grade	Modul level	graduate			
	Courses			taught in: Germ							
	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-ASP-161-m01	Introduction to Space Physics											
	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 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	Additio	nal Qua	alification	S			'					
	ECTS	5	Duration	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (2) -	V (2) + R (2)							
	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 prerequisites			Approval from examination committee required.								
11-EXZ6-161-mo1		<u>`</u>	alification		5							
	ECTS Course	6 s	Duration	1 V (3) -	1 semester + R (1)	Method of grading   numerical grade	Modul level	graduate				
			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	sites	Appro	val from examinat	on committee required.						

11-EXNT6-161-m01	Non-te	chnical	Minor Su	bject							
	ECTS 6 Duration		n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (3) -	/ (3) + R (1)						
	Method of assessment			amina on/ta If a wi form o 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 prerequisites			Appro	pproval from examination committee required.						
Thesis (60 ECTS cre	edits)										
11-FS-N-212-m01	Profess	sional S	pecializa	tion Qu	ion Quantum Technology						
	ECTS 15 Duration			n	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-212-m01	Scientific Methods and Project Management Quantum Technology										
	ECTS	15	Duratio	,	1 semester	Method of grading (not) successfully completed	Modul level	graduate			
	Courses			R (4) Module taught in: German or English							
	Method	d of ass	essment	talk with discussion (30 to 45 minutes) Language of assessment: German and/or English							
11-MA-N-212-m01	Master	Thesis	Quantum	Technology							
	ECTS 30 Duratio			1	1 semester	Method of grading   numerical grade	Modul level	graduate			
	Course	Courses			No courses assigned to module						
	Method	d of ass	essment	Master's thesis (750 to 900 hours total) Language of assessment: German and/or English							
	Additional Information		Time to complete: 6 months.								