



Annex SFB

Studienfachbeschreibung (subject description, SFB) for the subject Quantum Engineering 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: 2020 Abbreviations used: Course types: $\mathbf{E} = \text{field trip}$, $\mathbf{K} = \text{colloquium}$, $\mathbf{O} = \text{conversatorium}$, $\mathbf{P} = \text{placement/lab course}$, $\mathbf{R} = \text{project}$, $\mathbf{S} = \text{seminar}$, $\mathbf{T} = \text{tutorial}$, $\mathbf{\ddot{U}} = \text{exercise}$, \mathbf{V} = lecture Term: **SS** = summer semester, **WS** = winter semester Methods of grading: NUM = numerical grade, B/NB = (not) successfully completed Regulations: (L)ASPO = general academic and examination regulations (for teaching-degree programmes), FSB = subject-specific provisions, SFB = list of modules Other: A =thesis, LV =course(s), PL =assessment(s), TN =participants, VL =prerequisite(s) Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not cre-Conventions for the modules in this SFB: ditable for bonus. Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the me-Information on thod of assessment to be used in the current semester by two weeks after the start of the course at the latest and will communicate this in the assessment procedures: customary manner. Should a module comprise more than one graded assessment, all assessments will be equally weighted, unless otherwise stated below. Should the assessment comprise several individual assessments, successful completion of the module will require successful completion of all individual assessments.

In accordance with the general regulations governing the degree subject described in this module catalogue:

ASPO2015

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

06-Feb-2020 (2020-15)

06-Sep-2022 (2022-56)

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	D	uration	(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	ssessmer	nt							
	Only after su completion of		if applica	if applicable						
	Other prerequisites		if applica	ble						
	Participants and allocati- on of places		ati- if applica	ble						
	Additional information		n if applica	ble						
	Referred to in	n LPO I	if applica	ble (examination r	regulations for teaching	g-degree programmes)				

Electives Field (60	ECTS credits)										
Subfield Quantum	Engineering (55 ECTS cre	dits)									
Advanced Laborat	ory Courses (9 ECTS credi	ts)									
11-P-FM1-Int-201-	Advanced Laboratory Course Master Part 1										
m01	ECTS 3 Duratio										
	Courses	P (3) Module taught in: English									
	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: English									
	other prerequisites	Preparation and safety briefing.									
11-P-FM2-Int-201-	Advanced Laboratory Course Master Part 2										
m01	ECTS 3 Duratio	n 1 semester Method of grading (not) successfully completed Modul level graduate									
	Courses	P (3) Module taught in: English									
	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 to periments to be considered to have successfully completed this module. Detailed regulations are laid down in the respe- module description. Language of assessment: English									
	other prerequisites	Preparation and safety briefing.									
11-P-FM3-Int-201-	Advanced Laboratory Course Master Part 3										
m01	ECTS 3 Duratio										
	Courses	P (3) Module taught in: English									
	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: English									
	other prerequisites	Preparation and safety briefing.									

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11-P-FM4-Int-201-	Advanced Laboratory Course Master Part 4									
m01	ECTS 3	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses		P (3) Modu	le taught in: English	l					
	Method of	fassessment	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: English							
	other prer	equisites	Prepa	ration and safety br	iefing.					
Advanced Seminar	(5 ECTS cre	edits)								
11-0SN-A-Int-201-	Advanced	Seminar Qua	ntum E	ngineering A						
m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		S (2) Modu	le taught in: English	l					
	Method of	fassessment	talk with discussion (30 to 45 minutes) Language of assessment: English							
11-0SN-B-Int-201-	Advanced	Seminar Qua	ntum E	ntum Engineering B						
m01	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		S (2) Module taught in: English							
	Method of	fassessment	talk with discussion (30 to 45 minutes) Language of assessment: English							
Specialization Qua	ntum Engir	neering								
11-HNS-Int-201-	Optical Pr	operties of S	emicon	ductor Nanostructur	res					
m01	ECTS 6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		V (3) + R (1) Module taught in: English							
	Method of	fassessment	b) ora c) ora d) pro e) pre If a w form the le Langu	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: English Assessment offered: In the semester in which the course is offered and in the subsequent semester						

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11-HPH-Int-201-	Semico	onducto	r Physics								
m01	ECTS 6 Duration				1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	!S		V (3) H Modu	- R (1) le taught in: Engl	ish					
	Metho	d of ass	essment	b) ora c) ora d) pro e) pre If a wr form c the le Langu	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: English Assessment offered: In the semester in which the course is offered and in the subsequent semester						
11-QTR-Int-201-	Quanti	um Tran	sport								
m01	ECTS	6	Duration	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S			/ (3) + R (1) Module taught in: English						
	Method of assessment			b) ora c) ora d) pro e) pre If a wr form c the le Langu	l examination of l examination in g ject report (appro sentation/talk (a itten examination of an oral examin cturer must inform age of assessme	(approx. 90 to 120 minutes) or one candidate each (approx. 30 minutes) or groups (groups of 2, approx. 30 minutes per ca ox. 8 to 10 pages) or pprox. 30 minutes). n was chosen as method of assessment, this n ation of one candidate each or an oral examina m students about this by four weeks prior to th ent: English a the semester in which the course is offered an	nay be changed and as ation in groups. If the m ne original examination	ethod of assessment is changed, date at the latest.			
11-NOP-Int-201-	Nano-C		1								
m01		6	Duration		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. Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester 							

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11-SPI-Int-201-m01	Spintro	onics									
	ECTS	6	Duration	۱	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		V (3) + Modu	+ R (1) le taught in: Engli	sh					
	Method of assessment			b) ora c) ora d) pro e) pre lf a wr form c the le Langu Asses	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester						
11-BSV-Int-201-		-	nal Proce	ssing i	n Physics						
m01	ECTS	6	Duratior		1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S			V (2) + Ü (2) 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 change the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester 							
11-PMM-Int-201- m01			anced Ma		<u> </u>		1				
1101	ECTS Course	6 s		V (3) +	1 semester ⊦ R (1) le taught in: Engli	Method of grading numerical grade	Modul level	graduate			
	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: English Assessment offered: In the semester in which the course is offered and in the subsequent semester 							

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11-0HL-Int-201-	Organic Semic	conductor	irs						
m01	ECTS 6	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate		
	Courses			+ R (1)	· ·				
				le taught in: Englis					
	Method of ass	essment			pprox. 90 to 120 minutes) or				
					e candidate each (approx. 30 minutes) or ups (groups of 2, approx. 30 minutes per				
				oject report (approx.					
				esentation/talk (app					
					vas chosen as method of assessment, this on of one candidate each or an oral exam				
					students about this by four weeks prior to				
			Langu	lage of assessment	: English	-			
					e semester in which the course is offered	and in the subsequent se	emester		
08-FU-SAM-161-		1		1	and Magnetic Particles				
m01	ECTS 5	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate		
	Courses	_		+ P (2)					
	Method of ass	essment	a) written examination (approx. 90 minutes) or						
			b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate)						
			Language of assessment: German and/or English						
					e a year, summer semester				
				ditable for bonus					
08-PCM4-161-m01	Ultrafast spec			1					
	ECTS 5	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate		
	Courses			+ Ü (1) Ile taught in: Germa	n or Englich				
	Method of ass	accmont	Module taught in: German or English a) written examination (approx. 90 minutes) or						
		essment	b) oral examination of one candidate each (approx. 20 minutes) or						
			c) talk (approx. 30 minutes)						
			Language of assessment: German and/or English						
	other prerequi		Prior completion of modules o8-PCM1a and o8-PCM1b recommended.						
08-FU-EEW-152-				Storage and Conversion					
m01	ECTS 5	Duratio		1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Courses			+ P (1) + E (1)					
	Method of ass	essment			testate/Nachtestate (pre and post-experi				
					and assessment of practical assignments German and/or English	s (2 to 4 random examinat	ions), weighted 7:3		
					e a year, summer semester				

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08-FU-MW-161-	Structure and Properties of Modern Materials: Experiments vs. Simulations									
m01	ECTS 5	Duratio	n 1 semes	ster	Method of grading numerical	grade	Modul level	graduate		
	Courses		V (2) + S (1)		· · ·		-			
	Method of	assessment	a) talk (approx							
			b) oral examin	ation of o	ne candidate each (approx. 20 mi	inutes) or				
					roups (groups of 2, approx. 30 min	nutes total)				
					nt: German and/or English nce a year, winter semester					
11-EXN5-Int-201-	Current To	nics in Nanos	tructure Techn							
m01	ECTS 5	Duratio			Method of grading numerical	grade	Modul level	graduate		
	Courses		V (2) + R (2)			0.000		0		
			Module taugh	t in: Englis	sh					
	Method of	assessment	a) written exar	nination ((approx. 90 to 120 minutes) or					
					one candidate each (approx. 30 mi					
					roups (groups of 2, approx. 30 min	nutes per candidate	e) 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: English							
	other prere		Approval from examination committee required.							
11-EXN6-Int-201-			tructure Techn	ology			<u>.</u>			
m01	ECTS 6	Duratio	n 1 semes	ster	Method of grading numerical	grade	Modul level	graduate		
	Courses		V(3) + R(1)							
			Module taught in: English							
	Method of assessment									
			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							
								nethod of assessment is changed,		
					n students about this by four week	s prior to the origin	nal examination	date at the latest.		
		· .,	Language of a		<u> </u>					
	other prere	equisites	Approval from	examinat	tion committee required.					

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11-EXN7-Int-201-	Current Topic	cs in Nanos	tructure Technology							
m01	ECTS 7	Duratior	1 semester	Method of grading numerical g	grade	Modul level	graduate			
	Courses		V (3) + R (1) Module taught in: English							
	Method of as		 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: English 							
	other prerequ	uisites	Approval from examina	tion committee required.						
11-EXN8-Int-201- m01	Current Topic	cs in Nanos	tructure Technology							
	ECTS 8	Duratior	1 semester	Method of grading numerical g	grade	Modul level	graduate			
	Courses		V (4) + R (2) Module taught in: Engli	V (4) + R (2) Module taught in: English						
	Method of as		 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: English 							
	other prerequ		Approval from examination committee required							
11-EXN6A-Int-201-	Current Topics in Nanostructure Technology									
m01	ECTS 6 Courses		n 1 semester Method of grading numerical grade Modul level graduate V (3) + R (1) Module taught in: English							
	Method of as	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. 							
	other prerequ	uisites	Approval from examina	tion committee required.						
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11-CSFM-Int-201-	Advanc	ed Topi	cs in Soli	olid State Physics							
m01	ECTS 6 Duration		า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5			V (3) + R (1) Module taught in: English						
	Method	l of asse	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. 							
	other p	rerequis	ites	Approval from examination committee required.							
11-CSNM-Int-201-	Advanced Topics in Nanostructure Technology										
m01	ECTS 6 Duratio		Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			V (3) + R (1) Module taught in: English							
	Method	l of asse	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: English 							
	other p	rerequis	ites	Approval from examination committee required.							

11-FK2-Int-201-m01	Solid S	State Ph	ysics 2			1					
	ECTS	8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			V (4) - Modu	V (4) + R (2) Module taught in: English						
	Module taught in: EnglishMethod of assessmenta) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assess form of an oral examination of one candidate each or an oral examination in groups. If the method 								ethod of assessment is changed, date at the latest.		
	other prerequisites			Approval from examination committee required.							
11-CSPM-Int-201-	Advanced Topics in Physics										
m01	ECTS	6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	25		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. 							
	other p	orerequi	sites	Appro	val from examination	on committee require	d.				

11-FKS-Int-201-m01	Solid S	tate Sp	ectrocopy							
	ECTS	6	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V (3) + R (1) Module taught in: Eng	lish					
	Methoo	l of asse		 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: English Assessment offered: In the semester in which the course is offered and in the subsequent semester 						
11-TEFK-Int-201- m01	Topolo	gical Eff	fects in So	lid State Physics						
	ECTS	8	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V (4) + R (2) Module taught in: Eng	lish					
	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: English Assessment offered: In the semester in which the course is offered and in the subsequent semester 						
11-FFK-Int-201-m01	Field Theory in Solid State Physics									
	ECTS	8	Duration		Method of grading	numerical grade	Modul level	graduate		
	Course	S		V (4) + R (2) Module taught in: English						
	Methoc	l of asse	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: English Assessment offered: In the semester in which the course is offered and in the subsequent semester 						

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11-AKTF-Int-201-	Selecte	ed Topio	s of Theo	retical Solid State Physics								
m01	ECTS	6	Duratior	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			V (3) + R (1) Module taught in: English							
	Metho	d of ass	essment	 a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester 								
11-MAG-Int-201- m01	Magne	tism										
	ECTS 6 Duratio			l	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses				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 to form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is chat the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester 					ethod of assessment is changed, date at the latest.			
11-QM2-Int-201-	-		hanics II									
m01		8	Duratior		1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		V (4) + R (2) 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. Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester 								

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11-TQO-Int-221-	Theoretical Quantum Optics									
m01	ECTS	8	Duratior	I	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Course	S		V (4) + R (2) Module taught in: English						
	Methoo	d of ass		 a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester 						
11-TFK-Int-201-m01	Theore	tical So	lid State I	Physic	S					
	ECTS 8 Duratio			ו	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Course	S		V (4) - Modu	R (2) R taught in: Englis	h				
				 a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is chat the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester 						
11-PTS-Int-201-					Superconductivity					
m01	ECTS	6	Duratior		1 semester	Method of grading	numerical grade	Modul level	graduate	
	Course	S		V (3) + R (1) Module taught in: English						
	Methoo	d of ass		 a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester 						

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11-QIC-Int-201-mot	Advan	ed The	ory of Qua	ntum (Computing and Q	uantum Information		· · · · · · · · · · · · · · · · · · ·		
	ECTS	6	Duratior	า	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Course	S		V (3) + Modul	R (1) e taught in: Engli	sh		·		
	Metho	d of ass		 a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester 						
11-MRI-Int-201- m01	Advan	ced Mag	gnetic Res	onance	Imaging					
	ECTS	6	Duratior	۱	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Course	S		V (3) + Modul	R (1) e taught in: Engli	sh				
				 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 t form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is char the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester 					method of assessment is changed, In date at the latest.	
11-SSC-Int-201- m01		e Scien								
	ECTS Course	6 s		V (3) +	1 semester R (1) e taught in: Engli	Method of grading	numerical grade	Modul level	graduate	
	Metho	d of ass	essment	 a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester 						

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11-FPA-Int-201-m01	Visiting Research										
	ECTS	10	Duratio	n		Method of grading	numerical grade	Modul level	graduate		
	Cours	es		R (o)							
				Modu	le taught in: English	1					
	Metho	od of ass	essment		project report (approx. 10 to 20 pages)						
					age of assessment:						
		prerequi			val from examinatio	on committee require	d.				
11-EXP5-Int-201-		nt Topics	in Physic	s							
m01	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Cours	es		V (2) -							
					le taught in: English						
	Metho	od of ass	essment			pprox. 90 to 120 min					
						e candidate each (ap					
					ject report (approx.		prox. 30 minutes per candidate) 01			
					sentation/talk (app						
							d of assessment, this may be cl	hanged and as	sessment may instead take the		
									ethod of assessment is changed,		
							y four weeks prior to the origina	al examination	date at the latest.		
			-:+	Language of assessment: English Approval from examination committee required.							
		prerequi			ival from examinatio	on committee require	d.				
11-EXP6-Int-201-		· ·	in Physic				· · ·				
m01	ECTS	6	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Cours			V (3) + R (1)							
	Metho	od of ass	essment		a) written examination (approx. 90 to 120 minutes) or						
				b) ora	b) oral examination of one candidate each (approx. 30 minutes) or						
				c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or							
				d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes).							
							d of assessment, this may be cl	hanged and as	sessment may instead take the		
				form o	of an oral examination	on of one candidate	each or an oral examination in g	groups. If the m	ethod of assessment is changed,		
							y four weeks prior to the origina	al examination	date at the latest.		
				-	age of assessment:						
	other	prerequi	sites	Approval from examination committee required.							

11-EXP7-Int-201-	Current Topics in Physics										
m01	ECTS 7	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (3) + R (1) Module taught in: English								
	Method of ass		 a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: English 								
	other prerequi			val from examinati	on committee require	d.					
11-EXP8-Int-201- m01	Current Topics							Laura di cata			
mor	ECTS 8	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (4) + R (2) Module taught in: English								
	Method of ass		 a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: English 					d take the is changed,			
	other prerequi	isites	Approval from examination committee required.								
11-EXP6A-Int-201-	Current Topics	s in Physics									
m01	ECTS 6	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (3) + R (1) Module taught in: English								
	Method of ass		 a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: English 								
	other prerequi	isites	Appro	val from examinati	on committee require	d					
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Subfield Nontechni	cal Minors								
10-M-VAN-152-m01	Advanced Ana	lysis							
	ECTS 7	Duration		Method of gradir	ng numerical grade	Modul level	undergraduate		
	Courses		V (4) + Ü (2)						
	Method of ass		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=VDI-	Discrete Math	ematics							
Min-152-m01	ECTS 5	Duration		Method of gradir	ng numerical grade	Modul level	graduate		
	Courses		V (3) + Ü (1) Module taught in: E	<u> </u>					
	Method of ass		a) written examination (approx. 60 to 90 minutes, usually chosen) or b) oral examination of one candidate each (approx. 15 minutes) or c) oral examination in groups (groups of 2, approx. 10 minutes per candidate) Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus						
10-I=PA-161-m01	Analysis and D	Design of P	rograms						
	ECTS 5	Duration		Method of gradir	ng numerical grade	Modul level	graduate		
	Courses		V (2) + Ü (2)						
	Method of ass		If announced by the of one candidate ea date).	ch (approx. 20 minutes) ment: German and/or E	ng of the course, the writ) or an oral examination		replaced by an oral examination s (approx. 15 minutes per candi-		
	Additional Info		Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE,IS,ES,GE						
10-I-APR-172-m01	Advanced Prog	gramming							
	ECTS 5	Duration	1 semester	Method of gradir	ng numerical grade	Modul level	undergraduate		
	Courses		V (2) + Ü (2)						
	Method of ass		written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus						
	Referred to in I	LPO I	§ 22 II Nr. 3 b)						

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10-I=DB-161-m01	Database	S								
	ECTS 5 Duration		on	1 semester	Method of grading num	nerical grade	Modul level	graduate		
	Courses		V (2)	V (2) + Ü (2)						
	Method o	f assessmen	If anr of on date) Sepa Lang	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Separate written examination for Master's students. Language of assessment: German and/or English creditable for bonus						
	Additiona	l Informatior			lents of the Master's prog	ramme Informatik (Compu	ter Science 120	ECTS credits): SE, IS, HCI, GE.		
10-I-BS-191-m01		g Systems	Tocu							
	ECTS 5		on	1 semester	Method of grading num	nerical grade	Modul level	undergraduate		
	Courses	I		+ Ü (2) Ile taught in: English						
	Method o	f assessmen	If anr of on date) Lang	ounced by the lectu e candidate each (aj				replaced by an oral examination 5 (approx. 15 minutes per candi-		
10-l=Kl1-161-m01	Artificial	Intelligence :								
	ECTS 5	Durati		1 semester	Method of grading num	nerical grade	Modul level	graduate		
	Courses		• • •	$V(2) + \ddot{U}(2)$						
	Method o	f assessmen	If anr of on date) Lang	ounced by the lectu e candidate each (aj		replaced by an oral examination 5 (approx. 15 minutes per candi-				
	Additiona	Il Informatior		Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,SE,IS,HCI						
02-N-Ö-	Environm	ental Law								
W2-05-152-m01	ECTS 3	Durati		1 semester	Method of grading num	nerical grade	Modul level	undergraduate		
	Courses		V (2)	-						
			b) ora Asses	a) written examination (approx. 120 minutes) or b) oral examination (approx. 15 minutes) Assessment offered: Usually every two years, winter semester						
	other prerequisites Prior completion of the following module is recommended: 02-N-Ö-V									

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11-AP-Int-201-m01	Astrop	hysics									
	ECTS	6	Duration	ı	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Course	S			V (2) + R (2) Module taught in: English						
	Metho	d of ass	essment	b) ora c) ora d) pro e) pre If a wi form o the le Langu	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: English Assessment offered: In the semester in which the course is offered and in the subsequent semester						
11-ASM-Int-201-	Metho	ds of Ob	oservation	al Ast	ronomy						
m01	ECTS	6	Duratior	า	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S			/ (3) + R (1) Aodule 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 form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is chat the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester 							
11-ASP-Int-201-			Space Pl	<u> </u>	<u> </u>						
m01		6	Duration		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. Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester 						

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11-EXZ5-Int-201-	Nontechnical Special Topics											
m01	ECTS 5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		V (2) + R (2) Module taught in: English									
	Method of ass		 a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: English 									
11-EXZ6-Int-201-	other prerequi		<u> </u>	val from examination	on committee require	d.						
11-EX26-Int-201-	Nontechnical S	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses					numencargrade	Modulievei	glauuale				
			Modu	V (3) + R (1) Module taught in: English								
	Method of ass		 a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: English 									
	other prerequi		Approval from examination committee required.									
11-EXNT6-Int-201-	Nontechnical				1	1		1				
m01	ECTS 6	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		V (3) + R (1) Module taught in: English									
	Method of ass		 a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: English 									
	other prerequi	sites	Appro	val from examinati	on committee require	d.						
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Master Project Modules (60 ECTS credits)											
11-FS-N-Int-201-	Profes	sional S	pecializa	tion Qu	uantum Engineering						
m01	ECTS	15	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level			
	Course	!S		S (4) Module taught in: English							
	Metho	d of asse	essment		talk with discussion (30 to 45 minutes) Language of assessment: English						
11-MP-N-Int-201-	Scient	ific Meth	ods and	Projec	t Management Quan	tum Engineering					
m01	ECTS	15	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level			
	Courses			R (4) Module taught in: English							
	Metho	d of asse	essment		talk with discussion (30 to 45 minutes) Language of assessment: English						
11-MA-N-Int-201-	Master Thesis Quantum Engineering										
m01	ECTS	30	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses				no courses assigned Module taught in: English						
	Method of assessment				Master's thesis (750 to 900 hours total) Language of assessment: English						
	Additional Information		Time to complete: 6 months								