



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: 2024 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-Sep-2023 (2023-71)

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 spe	o be specified in the form X (y) with course type X abbreviated as specified above and number of weekly contact hours y							
	Method of as	ssessme	ent								
	Only after su completion of		Il if applica	if applicable							
	Other prereq	uisites	if applica	if applicable							
	Participants on of places		ocati- if applica	if applicable							
	Additional information		on if applica	if applicable							
	Referred to in	n LPO I	if applica	ble (examination re	gulations for teaching	g-degree programmes)					

Electives Field (60	ECTS credits)									
Subfield Quantum	Engineering (min. 55 EC	rS credits)								
Advanced Laborat	ory Courses (min. 9 ECTS	credits)								
11-P-FM1-Int-201-	Advanced Laboratory C	ourse 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 two experiments 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-FM3-Int-201-	Advanced Laboratory Course Master Part 3									
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									
	other prerequisites	Preparation and safety briefing.								

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11-P-FM4-Int-201-	Advanced	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)									
				Ile taught in: English								
	Method of	assessment		ical examination	lly propara parform d	ocument (lab notabook) and	avaluato (in the	form of a scientific nublication)				
			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 prere	auisitos		ration and safety bri								
Advanced Seminar			litebe	and safety bill	lening.							
11-OSN-A-Int-201-			ntum E	ngineering A								
11-USN-A-INT-201- m01	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	Duratio	S (2)		Method of grading	numencal glade	Modul level					
	Courses			Module taught in: English								
	Method of	assessment		vith discussion (30 to								
			-	lage of assessment:	English							
11-OSN-B-Int-201-				ngineering B		· · ·	1	· · · ·				
-	ECTS 5 Duratio			1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		S (2) Module taught in: English									
	Method of	assessment										
			Language of assessment: English									
Specialization Qua												
11-HNS-Int-201-		· .		miconductor Nanostructures								
m01	ECTS 6	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		V(3) + R(1)									
	Method of	assessment		Module taught in: English a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c)								
	Method of	assessment	oral examination in groups (groups of 2, approx. 30 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) or c)									
			prese	presentation/talk (approx. 30 minutes).								
								sessment may instead take the ethod of assessment is changed,				
						four weeks prior to the origina						
			Asses	ssment offered: In th	e semester in which t	ne course is offered and in the						
			Langu	lage of assessment:	English							

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11-HPH-Int-201-	Semiconductor Physics											
m01	ECTS	6	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			V (3) + R (1) Module taught in: English							
	Methoo	l of ass	essment	oral oral oral oral oral oral oral of pressoned for the location of the locati	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: English							
11-QTR-Int-201-	Quantu	ım Tran	sport				-					
m01	ECTS	6	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			+ R (1) Jle taught in: Eng	lish						
	Method	1 01 455	essment	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 m oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may inst form of an oral examination of one candidate each or an oral examination in groups. If the method of assessm 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: English					ort (approx. 8 to 10 pages) or e) sessment may instead take the nethod of assessment is changed, date at the latest.			
11-NOP-Int-201-	Nano-Optics											
m01	ECTS	6	Duratio	ı	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (3) + R (1) Module taught in: English								
	Methoo	l of ass	essment	oral e prese If a w form the le 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. Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: English							

11-SPI-Int-201-m01	Spintronics										
	ECTS	6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S			V (3) + R (1) Module taught in: English						
				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) 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: English						
11-BSV-Int-201-		and Sig	nal Proce	ssing	in Physics						
m01	ECTS	6	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S			+ Ü (2) ule taught in: Eng	lish					
	Method	of ass	essment	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 per presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: English							
11-PMM-Int-201-	Physics of Advanced Materials										
m01	ECTS	6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V (3) + R (1) Module taught in: English							
	Methoo	d of ass	essment	oral e prese If a w form the le 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. Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: English						

11-0HL-Int-201-	Organic Semiconductors										
m01	ECTS	6	Duratio	n 1	1 semester Method of grading numerical grade Modul level graduate						
	Course	2S			V (3) + R (1) Module taught in: English						
	Metho	d of ass	sessment	b) oral e c) oral e d) projec e) prese If a writt form of a the lectu Assessm	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: English						
08-FU-SAM-161-	Sensor	r and Ac	ctor Mater	ials - Fun	ctional Ceramic	s and Magnetic Partic	les				
m01	ECTS	5	Duratio	n 1	semester	Method of grading	numerical grade	1	Modul level	graduate	
	Course	2S		V (2) + P	' (2)						
				a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral ex- 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							
08-PCM4-161-m01	Ultrafa	Ultrafast spectroscopy and quantum-control									
	ECTS	5	Duration	n 1	semester	Method of grading	numerical grade		Modul level	graduate	
	Course	2S		S (2) + Ü Module) (1) taught in: Germ	an or English					
	Metho	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	orerequi	isites	Prior cor	Prior completion of modules o8-PCM1a and o8-PCM1b recommended.						
08-FU-EEW-222-	Electro	chemic	al Energy	Storage a	and Conversion						
m01	ECTS	5	Duratio	n 1	semester	Method of grading	numerical grade		Modul level	undergraduate	
	Courses			V (2) + S (2) Module taught in: German or English							
	Metho	d of ass	sessment	b) talk (a Languag	a) written examination (approx. 90 minutes) or oral examination of one candidate each (approx. 30 minutes) and b) talk (approx. 30 minutes); (weighted 65:35) Language of assessment: German and/or English Assessment offered: Once a year, summer semester						

08-FU-MW-222-	Structure-Prop	erties Corr	relatio						
m01	ECTS 5 Duration			1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses		V (2) + S (2) Module taught in: German or English						
	Method of ass					r oral examination of one cand	idate each (ann	rox 20 minutes) and	
	Method of uss				es); (weighted 60:40)				
		1	Langu	age of assessment:	German and/or Eng	lish			
	Current Tenies				e a year, summer ser	nester			
11-EXN5-Int-241- m01	Current Topics					1 • • •			
mor	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						
	other prerequis		Approval from examination committee required.						
11-EXN6-Int-241-	Current Topics in Quantum Engineering								
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 asso	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: English						
	other prerequis	sites /	Appro	val from examinatio	on committee require	d.			

11-EXN7-Int-241-	Current To	opics in Quant	tum Engineering							
m01	ECTS 7	Duratio	n 1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (3) + R (1) Module taught in:	V (3) + R (1) Module taught in: English						
	Method o	f 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							
	other prer	equisites	Approval from exa	nination committee requir	ed.					
11-EXN8-Int-241- m01	Current To	opics in Quan	tum Engineering							
	ECTS 8	Duratio	n 1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (4) + R (2) Module taught in:	English						
		f assessment	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 prer	equisites	Approval from examination committee required							
11-EXN6A-Int-241-		opics in Quant	tum Engineering		-					
m01	ECTS 6	Duratio		Method of grading	numerical grade	Modul level	graduate			
	Courses		V (3) + R (1) Module taught in: English							
	Method o	fassessment	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 Approval from examination committee required.							
	other prer		the lecturer must i Language of asses	nform students about this sment: English	by four weeks prior to t					

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11-CSFM-Int-201-	Advanced Topics in Solid State Physics												
m01	ECTS 6 Duration			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. Language of assessment: English									
	other p	rerequi	sites	Appro	oval from examina	ation committee require	d.						
11-CSNM-Int-241-	Advanc	Advanced Topics in Quantum Engineering											
m01	ECTS	6	Duratior		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S			V (3) + R (1) Module taught in: English 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			Approval from examination committee required.									
11-FK2-Int-201-m01	Solid State Physics 2												
		8	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			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. Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: English									
	other p	rerequi	sites	Appro	val from examina	ation committee require	d.						

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11-EIM-Int-201-	Electro	n and I	on Micros	сору								
m01	ECTS	6	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			V (3) + R (1) Module taught in: English							
	Methoo	d of ass	sessment	oral e prese If a w form the le) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) ral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) resentation/talk (approx. 30 minutes). Ta written examination was chosen as method of assessment, this may be changed and assessment may instead take the prim of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, ne lecturer must inform students about this by four weeks prior to the original examination date at the latest.							
11-CSPM-Int-201-	Advand	ed Top	ics in Phy	sics								
m01	ECTS	6	Duratio	ı	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			(3) + R (1) odule taught in: English							
				prese If a w form the le Langu	oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) 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 t form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is chan 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			Approval from examination committee required.								
11-FKS-Int-201-mo		itate Sp	pectrocopy	/				<u>.</u>				
	ECTS	6	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			+ R (1) lle taught in: Engl	ish						
	Methoo	d of ass	sessment	oral e prese If a w form the le Asses	xamination in gro ntation/talk (app ritten examinatio of an oral examin cturer must infor	oups (groups of 2, appro rox. 30 minutes). n was chosen as metho ation of one candidate of m students about this b n the semester in which	ox. 30 minutes per ca d of assessment, this each or an oral exam y four weeks prior to	Indidate) or d) project rep s may be changed and ass				

11-TEFK-Int-201-	Topolo	gical E	ffects in S	olid S	tate Physics							
m01	ECTS	8	Duratio	n	1 semester	Method of grading	g numerical grade	Modul le	vel	graduate		
	Course	S			+ R (2) ule taught in: Engli	sh						
	Methoo	d of ass	sessment	oral prese If a w form the le 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. Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: English							
11-FFK-Int-201-m01	Field Tl	neory i	n Solid Sta	ate Ph	ysics							
	ECTS	8	Duratio	n	1 semester	Method of grading	g numerical grade	Modul le	vel	graduate		
	Course	S			(4) + R (2) lodule taught in: English							
	Method	of ass	sessment	oral prese If a w form the le Asse	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 page presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead ta form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: English							
11-AKTF-Int-201-	Selecte	ed Topi	cs of Theo	retica	l Solid State Physi	cs						
m01	ECTS	6	Duratio		1 semester	Method of grading	g numerical grade	Modul le	vel	graduate		
	Course	S		V (3) + R (1) Module taught in: English								
	Methoo	d of ass	sessment	oral prese If a w form the le 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. Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: English							

11-MAG-Int-201-	Magne	tism											
m01	ECTS	6	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S			V (3) + R (1) Module taught in: English								
	Methoo	d of ass	sessment	oral oral oral oral oral oral oral of pressoned for the location of the locati	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: English								
11-QM2-Int-201-	Quantu	ım Mec	hanics II										
m01	ECTS	8	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S			(4) + R (2) odule taught in: English								
	Method		sessment	oral e prese If a w form the le Asse	examination in gr entation/talk (ap vritten examinatio of an oral examir ecturer must info	oups (groups of 2, approprox. 30 minutes). on was chosen as methonation of one candidate of students about this bout the semester in which	Indidate) or d) project rep s may be changed and as:						
11-TQO-Int-221-	Theore	tical Q	uantum O	otics	tics								
m01	ECTS	8	Duratio										
	Course	S			V (4) + R (2) Module taught in: English								
	Methoo	d of ass	sessment	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 ex- amination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentati- on/talk (approx. 30 minutes). f a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Assessment offered: In the semester in which the course is offered and in the subsequent semester _anguage of assessment: English								

11-TFK-Int-201-m01	Theoret	tical So	olid State	Physic								
	ECTS	8	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			Mod	V (4) + R (2) Module taught in: English							
				oral o prese If a w form the lo 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). f 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 .anguage of assessment: English							
11-PTS-Int-201-		nenolo	gy and Th	eory o	f Superconductiv	ity						
m01	ECTS	6	Duration	۱	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	S			3) + R (1) odule taught in: English							
			sessment	oral oral of present of a with the location of	examination in gro entation/talk (app rritten examinatio of an oral examin ecturer must inforn ssment offered: Ir uage of assessme	each (approx. 30 minutes) or c) ort (approx. 8 to 10 pages) or e) sessment may instead take the nethod of assessment is changed, date at the latest. emester						
11-QIC-Int-201-m01	Advanc	ed The	ory of Qua	ntum	Computing and C	uantum Information						
	ECTS	6	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	S			+ R (1) ule taught in: Engl	ish						
	Method	d of ass	sessment	oral oral oral oral of present of a with the location of the l	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: English							

11-MRI-Int-201-	Advanc	ed Mag	netic Res	onance	e Imaging						
m01	ECTS	6	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses				V(3) + R(1)						
				Module taught in: English							
	Methoo	l of asse	essment	oral ex preset If a wr form o the let 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) oresentation/talk (approx. 30 minutes). f 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: English						
11-SSC-Int-201-	Surface	e Scienc	e								
m01	ECTS 6 Duratio		า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			V (3) + R (1) Module taught in: English							
	Method of assessment			oral ex preset If a wr form o the let 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 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: English						
11-FPA-Int-201-m01	Visiting	g Resea	rch								
	ECTS 10 Duratio					Method of grading	numerical grade	Modul level	graduate		
	Courses			R (o) Module taught in: English							
	Method of assessment			project report (10 to 20 pages) Language of assessment: English							
	other p	rerequis	sites	Appro	val from examinatio	n committee require	d.				

11-EXP5-Int-201-	Current	t Topics	in Physic	:s								
m01	ECTS	5	Duratio	ก	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			V (2) + R (2) Module taught in: English							
	Methoc	l of ass		oral oral oral oral oral oral oral of the present of the present of the left or the left o	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	rerequi	sites	Appr	oval from examina	tion committee require	d.					
11-EXP6-Int-201-	Current	t Topics	in Physic	:s								
m01	ECTS	6	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	S		V (3)	+ R (1)							
				If a w form the le Lang	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 prerequisites Current Topics in Physic			Approval from examination committee required.								
11-EXP7-Int-201- m01		<u> </u>	· · · ·									
	ECTS Course	7 S	Duratio	1 semesterMethod of gradingnumerical gradeModul levelgraduateV (3) + R (1)Module taught in: English								
				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	rerequi	sites	Appr	oval from examination	tion committee require	d.					

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11-EXP8-Int-201-	Curren	t Topics	in Physic	s								
m01	ECTS	8	Duratio	n	1 semester Method of grading numerical grade Modul level graduate							
	Course	S		V (4) + R (2) Module taught in: English								
	Methoo	1 of asse	essment	oral e prese If a w form o the le	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: English							
	other p	rerequis	sites	Appro	oval from examinati	on committee require	d.					
11-EXP6A-Int-201-	Curren	t Topics	in Physic	:s								
m01	ECTS	6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			V (3) + R (1) Nodule taught in: English							
	Methoo	Method of assessment			examination in grou entation/talk (appro ritten examination v of an oral examinat	ps (groups of 2, appro x. 30 minutes). was chosen as metho ion of one candidate of students about this b	ox. 30 minutes per cano d of assessment, this n each or an oral examina	didate) or d) project repo nay be changed and ass	ach (approx. 30 minutes) or c) ort (approx. 8 to 10 pages) or e) essment may instead take the ethod of assessment is changed, date at the latest.			
	other p	rerequi	sites	Appro	oval from examinati	on committee require	d.					
Subfield Nontechn	nical Min	ors (o-5	ECTS cre	dits)								
10-M-VAN-222-	Advand	ced Anal	lysis									
m01	ECTS				1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			V (4) + Ü (2)								
	Courses Method of assessment			b) ora c) ora Langu	al examination of or Il examination in gro	ne candidate each (15	to 15 minutes per cand					

10-M=VDI-	Discrete Mathe	ematics										
Min-152-m01	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses			V (3) + Ü (1)								
				le taught in: English								
	Method of ass	essment			pprox. 60 to 90 minutes, usually chosen) or b) oral		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: English									
				creditable for bonus								
10-l=QC-221-m01	Quantum Com	1		í								
	ECTS 5	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses		V (2) -		_							
				le taught in: English								
	Method of ass	essment			rox. 60 to 120 minutes).	nination may be	replaced by an oral examination					
				announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination f one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-								
			date).	ite).								
				lage of assessment able for bonus	: English							
					dante af the Maataria was sugar a lafa was still (Cana	uter Celence ve						
	Additional Info			es available for stu	dents of the Master's programme Informatik (Comp	uter Science, 12	0 ECTS credits): LR					
10-I-APR-172-m01	Advanced Prog	1										
	ECTS 5	Duratio		1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Courses		V (2) -									
	Method of ass	essment		written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-								
			date).									
			Langu	lage of assessment able for bonus	: German and/or English							
10-I=DB-161-m01	Detabases		creat	able for bonus		1						
10-1=DD-101-11101	Databases ECTS 5	Duratio	<u></u>	1 comostor	Method of grading numerical grade	Modul level	graduate					
	ECTS 5 Courses	Duration	V (2) -	1 semester	Method of grading Indiferical grade	Modulievei	gladuate					
	Method of ass	occmont		.,	rox 60 to 120 minutos)							
	Method of ass	essment		written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination								
			ofone	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								
				able for bonus	. ספווומו מווע/טו בווצווטו							
	Additional Info	rmation			dents of the Master's programme Informatik (Comp	uter Science, 12	o ECTS credits): SE, IS, HCI, GE.					
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10-l-BS-191-m01	Operatin	g Syst	ems									
	ECTS 5	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses				V (2) + Ü (2)							
					Module taught in: English							
	Method o	ofasse	essment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-								
				date).	date).							
					lage of assessment: able for bonus	: German and/or Engl	ish					
10-I=KI1-212-m01	Artificial	Intelli	gence 1	cicuit								
	ECTS 5		Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	,			$(2) + \ddot{U}(2)$							
	Method o	ofasse	essment	writte	n examination (app	rox. 60 to 120 minute	es).		-			
				lf ann	ounced by the lectu	rer at the beginning o	of the course, the written exami	nation may be r	eplaced by an oral examination			
				date).	of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-							
					able for bonus							
						German and/or Engl						
	Addition			Focus	es available for stud	dents of the Master's	programme Informatik (Compu	ter Science, 120	ECTS credits): AT,SE,KI,HCI			
02-N-Ö-	Environn		·		1	1		·				
W2-05-152-m01		ECTS 3 Duratio										
	Courses			V (2)								
	Method o	of asse	essment	a) written examination (approx. 120 minutes) or b) oral examination (approx. 15 minutes) Assessment offered: Usually every two years, winter semester								
	other pre	inear	ites	Prior completion of the following module is recommended: 02-N-Ö-V								
11-AP-Int-201-m01	Astrophy											
	ECTS 6 Duratio		n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses			V (2) + R (2)								
	courses			Module taught in: English								
	Method o	ofasse	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.								
							y four weeks prior to the origina the course is offered and in the					
					lage of assessment:			Subsequeill Se	וונסנכו			

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11-ASM-Int-201-	Methods of Observational Astronomy										
m01	ECTS	6	Duratio	ı	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses				+ R (1) ule taught in: Englis	h					
	Method	of asse	essment	oral prese If a w form the le 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. Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: English						
11-ASP-Int-201-	Introduc	tion to	Space P	hysics	5						
m01	ECTS	6	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			V (3) + R (1) Module taught in: English							
	Method of assessment			oral 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) 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: English						
11-EXZ5-Int-201-	Nontech	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			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 pr	erequis	sites	Approval from examination committee required.							

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11-EXZ6-Int-201-	Nontechnical Special Topics										
m01	ECTS 6 Duration			า	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	s		V (3) + R (1)							
					le 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							
	other p	rerequi	sites			on committee require	d.				
11-EXNT6-Int-201-			Ninor Sub	ject		· · ·					
m01	ECTS	6	Duration	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. Language of assessment: English							
	other p	rerequi	sites	Approval from examination committee required.							
Master Project Mo	dules (6	o ECTS (credits)								
11-FS-N-Int-201-	Profes	sional S	pecializat	tion Qu	antum Engineering	5					
m01	ECTS 15 Duratio			1	1 semester	Method of grading	(not) successfully completed	Modul level			
	Course	S		S (4) Module taught in: English							
	Metho	d of ass	essment	talk with discussion (30 to 45 minutes) Language of assessment: English							
11-MP-N-Int-201-	Scienti	fic Metl	nods and	Project Management Quantum Engineering							
m01	ECTS	15	Duration		1 semester	Method of grading	(not) successfully completed	Modul level			
	Course	S		R (4) Modu	R (4) Module taught in: English						
	Metho	d of ass	essment		vith discussion (30 to lage of assessment:						

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11-MA-N-Int-201-	Master	Thesis	Quantum	Engin	eering				
m01	ECTS	30	Duratio	1	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								

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