

Annex SFB

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

Responsible: Faculty of Mathematics and Computer Science

Responsible: Institute of Mathematics

Abbreviations used: Course types: $\mathbf{E} = \text{field trip}$, $\mathbf{K} = \text{colloquium}$, $\mathbf{O} = \text{conversatorium}$, $\mathbf{P} = \text{placement/lab course}$, $\mathbf{R} = \text{project}$, $\mathbf{S} = \text{seminar}$, $\mathbf{T} = \text{tutorial}$, $\mathbf{U} = \text{exercise}$, $\mathbf{V} = \mathbf{V} = \mathbf$

Examination regulations version: 2022

Examination regulations version: 2022

= lecture

Term: **SS** = summer semester. **WS** = winter semester

Methods of grading: **NUM** = numerical grade, **B/NB** = (not) successfully completed

Regulations: (L)ASPO = general academic and examination regulations (for teaching-degree programmes), FSB = subject-specific provisions, SFB

= list of modules

Other: A = thesis, LV = course(s), PL = assessment(s), TN = participants, VL = prerequisite(s)

Conventions for the modules in this SFB: ditable for bonus.

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

Information on Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the meassessment procedures: 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 customary manner.

Should a module comprise more than one graded assessment, all assessments will be equally weighted, unless otherwise stated below.

Should the assessment comprise several individual assessments, successful completion of the module will require successful completion of all individual assessments.

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

ASP02015

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

02-Feb-2022 (2022-6)

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	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	ssessm	ent										
	Only after su completion of		ıl if applica	fapplicable									
	Other prereq	uisites	if applica	if applicable									
	Participants on of places		ocati- if applica	if applicable									
	Additional in	format	ion if applica	if applicable									
	Referred to in	n LPO I	if applica	if applicable (examination regulations for teaching-degree programmes)									

Compulsory Election	ves (90 E	CTS cre	dits)										
Mathematics (30 E	CTS cree	dits)											
10-M=AAA-	Applie	d Analys	is										
Nin-152-m01	ECTS	10	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	!S			V (4) + Ü (2) Module taught in: English								
	Metho	d of asse	essment	b) ora c) ora Langu Asses	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 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-M=AAL-	Topics	in Algeb	ra										
Gin-152-m01	ECTS	10	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	!S			V (4) + Ü (2) Module taught in: English								
	Method of assessment			a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 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					emester				
10-M=ADG-	Differe	ntial Ge	ometry										
Min-152-m01	ECTS	10	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	!S		V (4) + Ü (2) Module taught in: English									
	Method of assessment			a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 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-M=AFT-	Complex Analysis												
Hin-152-mo1	ECTS :	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			V (4) - Modu	- ⊦ Ü (2) le taught in: English			•					
	Method	of asse	essment	b) ora c) ora Langu Asses	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) c. anguage of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus								
10-M=AGM-	Geometr	ric Stru	ctures					'					
Sin-152-m01	ECTS :	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			V (4) - Modu	- Ü (2) le taught in: English			^					
	Method	of asse	essment	b) ora c) ora Langu Asses	written examination (approx. 90 to 120 minutes, usually chosen) or o) oral examination of one candidate each (approx. 20 minutes) or o) oral examination in groups (groups of 2, 15 minutes per candidate) canguage of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus								
10-M=AI-	Industrial Statistics 1												
STin-152-m01	ECTS 10 Duratio			n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			V (4) + Ü (2) Module taught in: English									
	Method	of asse	essment	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 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-M=AL-	Lie Theo	ry						,					
THin-152-mo1	ECTS :	10	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses				V (4) + Ü (2) Module taught in: English								
	Method of assessment			a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 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-M=ANG-	Numeric of La	rge Systei	ns of E	of Equations								
Gin-152-m01	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		V (4) + Modu	- Ü (2) le taught in: English								
	Method of ass	essment	b) ora c) oral Langu Asses	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) canguage of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus								
10-M=AOP-	Basics in Opti	mization										
Tin-152-m01	ECTS 10	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			/ (4) + Ü (2) Module taught in: English								
	Method of ass	essment	b) ora c) oral Langu Asses	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 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-M=AR-	Control Theory	у					,					
THin-152-mo1	ECTS 10	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		V (4) + Ü (2) Module taught in: English									
	Method of ass	essment	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 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-M=ASM-	Stochastic Mo	dels of Ri	sk Mar	agement								
Rin-152-m01	ECTS 10	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			V (4) + Ü (2) Module taught in: English								
	Method of ass	essment	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 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-M=AST-	Stochas	stical P	rocesses										
Pin-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	S		V (4) - Modu	- Ü (2) le taught in: English								
	Method	l of asse	essment	b) ora c) ora Langu Asses	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 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-M=ATO-	Topolog	gy						'					
Pin-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	S		V (4) - Modu	- Ü (2) le taught in: English								
	Method	l of asse	essment	b) ora c) ora Langu Asses	written examination (approx. 90 to 120 minutes, usually chosen) or oral examination of one candidate each (approx. 20 minutes) or oral examination in groups (groups of 2, 15 minutes per candidate) anguage of assessment: English assessment offered: In the semester in which the course is offered and in the subsequent semester reditable for bonus								
10-M=AVS-	Insurance Mathematics 1												
Min-152-m01	ECTS	10	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses				V (4) + Ü (2) Module taught in: English								
	Method	l of asse	essment	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 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-M=AZ-	Time Se	eries An	alysis										
RAin-222-m01	ECTS	10	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	S			V (4) + Ü (2) Module taught in: English								
	Method of assessment			b) ora c) ora Langu Asses	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 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-M=AZTHin-152-	Number Theory												
mo1	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		V (4) - Modu	+ Ü (2) le taught in: Englis	h							
				b) ora c) ora Langu Asses credit	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 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-M=AGP-			Lecture (r)								
Cin-152-m01	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S			(3) + Ü (1) Module taught in: English								
	Method	d of asse	essment	b) ora c) ora Langu Asses	a) written examination (approx. 60 to 90 minutes, usually chosen) or a or or one candidate each (approx. 15 minutes) or or or a candidate each (approx. 15 minutes) or or or all examination in groups (groups of 2, approx. 10 minutes per candidate) anguage of assessment: English assessment offered: In the semester in which the course is offered and in the subsequent semester reditable for bonus								
10-M=VA-	Selected Topics in Analysis												
NAin-152-mo1	ECTS	10	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		V (4) + Ü (2) Module taught in: English									
	Method	d of asse	essment	b) ora c) ora Langu Asses	l examination of or l examination in gro lage of assessment	ne candidate each (ap oups (groups of 2, 15 :: English	utes, usually chosen) of prox. 20 minutes) or minutes per candidate the course is offered a		emester				
10-M=VAT-	Algebra	aic Topo	logy										
Pin-152-mo1	ECTS	10	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S			V (4) + Ü (2) Module taught in: English								
	Method	d of asse	essment	b) ora c) ora Langu Asses	tten examination (approx. 90 to 120 minutes, usually chosen) or all examination of one candidate each (approx. 20 minutes) or a lexamination in groups (groups of 2, 15 minutes per candidate) usge of assessment: English as sement offered: In the semester in which the course is offered and in the subsequent semester able for bonus								

10-M=VFN-	Selected Topics in Financial Mathematics												
Min-152-m01	ECTS 1	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			V (4) + Modu	- Ü (2) le taught in: English								
	Method	of asse	ssment	b) ora c) oral Langu Asses	written examination (approx. 90 to 120 minutes, usually chosen) or on or one candidate each (approx. 20 minutes) or								
10-M=VGD-	Groups a	and the	ir Repres	entati	ons								
Sin-152-m01	ECTS 1	10	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses				V (4) + Ü (2) Module taught in: English								
	Method	of asse	ssment	b) ora c) oral Langu Asses	written examination (approx. 90 to 120 minutes, usually chosen) or) oral examination of one candidate each (approx. 20 minutes) or) oral examination in groups (groups of 2, 15 minutes per candidate) anguage of assessment: English assessment offered: In the semester in which the course is offered and in the subsequent semester reditable for bonus								
10-M=VGE-	Geometrical Mechanics												
Min-152-m01	ECTS 1	10	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			V (4) + Ü (2) Module taught in: English									
	Method	of asse	ssment	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 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-M=VI-	Industria	al Stati	stics 2										
STin-152-m01	ECTS 1	10	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			V (4) + Ü (2) Module taught in: English									
	Method of assessment			a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 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-M=VKA-	Field Arithmetics												
Rin-152-mo1	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S	•	V (4) - Modu	- FÜ (2) le taught in: English								
	Method	d of asse	essment	b) ora c) ora Langu Asses	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 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-M=VN-	Numer	ic of Par	tial Diffe	rential	Equations			'					
PEin-152-mo1	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		V (4) - Modu	- Ü (2) le taught in: English								
	Method	d of asse	essment	b) ora c) ora Langu Asses	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) c. anguage of assessment: English c. Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus								
10-M=VOP-	Selected Topics in Optimization												
Tin-152-m01	ECTS 10 Duratio				1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses				V (4) + Ü (2) Module taught in: English								
	Method	d of asse	essment	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 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-M=V-	Mathe	matical	Statistics	5									
STAin-222-mo1	ECTS	10	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		V (4) - Modu	+ Ü (2) le taught in: English								
	Method of assessment			a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 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-M=VVS-	Insurance Mathematics 2												
Min-152-m01	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses			- Ü (2) le taught in: English									
	Method of as	ssessment	b) ora c) ora Langu Asses	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 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-M=VDI-	Discrete Mat	hematics											
Min-152-m01	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses		V (3) + Modu	- Ü (1) le taught in: English									
	Method of as	ssessment	b) ora c) ora Langu Asses	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-M=VDSY-	Dynamical Systems												
in-152-m01	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses			V (3) + Ü (1) Module taught in: English									
	Method of as	ssessment	b) ora c) ora Langu	emester									
10-M=V-	Aspects of G	eometry											
GEOin-152-m01	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses			V (3) + Ü (1) Module taught in: English									
	Method of as	ssessment	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-M=V-	Mathematical Continuum Mechanics												
KOMin-152-mo1	ECTS	5	Duration	1 1 56	emester	Method of grading	numerical grade	Modul level	graduate				
	Course	!S		V (3) + Ü (Module ta	1) Iught in: English	l							
	Method	d of ass		b) oral exac) oral exaLanguageAssessme	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-M=VMB-	Mathe	matical	Imaging										
Vin-152-m01	ECTS	5	Duration	1 56	emester	Method of grading	numerical grade	Modul level	graduate				
	Course	!S			/ (3) + Ü (1) Module taught in: English								
	Metho	d 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-M=VM-	Selected Topics in Mathematical Physics												
PHin-152-m01	ECTS	10	Duration		emester	Method of grading	numerical grade	Modul level	graduate				
	Course	!S		V (4) + $\ddot{\text{U}}$ (2) Module taught in: English									
	Method	d of ass		a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 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-M=V-	Selecto	ed Topic	s in Contr	ol Theory									
TRTin-152-mo1	ECTS	10	Duration	1 56	emester	Method of grading	numerical grade	Modul level	graduate				
	Course	!S		V (4) + Ü (Module ta	2) Iught in: English	l							
	Method	d of ass		b) oral exac) oral exaLanguageAssessme	amination of one amination in gro of assessment:	amination (approx. 90 to 120 minutes, usually chosen) or nation of one candidate each (approx. 20 minutes) or nation in groups (groups of 2, 15 minutes per candidate) assessment: English offered: In the semester in which the course is offered and in the subsequent semester r bonus							

10-M=VI-	Inverse Problems 1											
PRin-222-mo1	ECTS 5	Dura	tion	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			+ Ü (1) ule taught in: English	1							
	Method o	f assessme	b) or c) or Lang Asse	n) written examination (approx. 60 to 90 minutes, usually chosen) or solver of the sementary of the semester in which the course is offered and in the subsequent semester are distributed by the semester of								
10-M=VMT-	Module T		,									
Hin-152-mo1	ECTS 5	Dura		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			+ Ü (1) ule taught in: English	1							
	Method o	f assessme	b) or c) or Lang Asse	written examination (approx. 60 to 90 minutes, usually chosen) or or on one candidate each (approx. 15 minutes) or oral examination in groups (groups of 2, approx. 10 minutes per candidate) anguage of assessment: English assessment offered: In the semester in which the course is offered and in the subsequent semester areditable for bonus								
10-M=VNA-	Non-linear Analysis											
Nin-152-mo1	ECTS 5	Dura		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			V (3) + Ü (1) Module taught in: English								
	Method o	f assessme	b) or c) or Lang Asse	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-M=VO-	Optimal C	Control	,									
STin-152-m01	ECTS 5	Dura		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			V (3) + Ü (1) Module taught in: English								
	Method o	f assessme	b) or c) or Lang Asse	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-M=VVSY-	Netwo	rked Sy	Networked Systems											
in-152-m01	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	es			/ (3) + Ü (1) Module taught in: English									
	Method	d of ass	essment	b) ora c) ora Langu Asses	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) c. anguage of assessment: English c. Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus									
10-M=VK-	Compl	ex Geor	netry											
GEin-152-mo1	ECTS	10	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	es			+ Ü (2) le taught in: Englis	h								
				b) ora c) ora Langu Asses credit	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 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-M=VPD-	Partial Differential Equations of Mathematical Physics													
Pin-152-m01	ECTS	10	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	es			V (4) + Ü (2) Module taught in: English									
	Method of assessment			b) ora c) ora Langu Asses	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 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-M=V-	Pseudo	o Riema	nnian and	Riem	annian Geometry									
PRGin-152-mo1	ECTS	10	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses				+ Ü (2) le taught in: Englis	h								
	Method	d of ass	essment	b) ora c) ora Langu Asses	rritten examination (approx. 90 to 120 minutes, usually chosen) or aral examination of one candidate each (approx. 20 minutes) or aral examination in groups (groups of 2, 15 minutes per candidate) guage of assessment: English essment offered: In the semester in which the course is offered and in the subsequent semester ditable for bonus									

10-M=AFA-	Functio	nal Ana	lysis												
Nin-152-m01	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate						
	Courses	6		V (4) + Modu	- Ü (2) le taught in: English										
	Method	of asse	essment	b) ora c) ora Langu Asses	l examination of on l examination in gro age of assessment:	e candidate each (apups (groups of 2, 15 English	utes, usually chosen) or prox. 20 minutes) or minutes per candidate) the course is offered and	d in the subsequent so	emester						
10-M=VAD-	Applied	Differe	ntial Geo	metry											
Gin-152-m01	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate						
	Courses	5		V (4) + Modu	- Ü (2) le taught in: English										
			essment	b) ora c) ora Langu Asses credit) written examination (approx. 90 to 120 minutes, usually chosen) or) oral examination of one candidate each (approx. 20 minutes) or) oral examination in groups (groups of 2, 15 minutes per candidate) anguage of assessment: English ssessment offered: In the semester in which the course is offered and in the subsequent semester reditable for bonus										
10-M=VG-	Giovani	ni Prodi	Lecture S	Selecte	d Topics (Master)										
PSin-152-m01	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate						
	Courses	5			V (4) + Ü (2) Module taught in: English										
	Method	of asse	essment	b) ora c) ora Langu Asses	l examination of on l examination in gro age of assessment:	e candidate each (apups (groups of 2, 15 English	utes, usually chosen) or prox. 20 minutes) or minutes per candidate) the course is offered and	d in the subsequent so	emester						
10-M=VG-	Giovani	ni Prodi	Lecture /	Advanc	ed Topics (Master)										
PAin-152-mo1	ECTS	10	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate						
	Courses	5		V (4) + Ü (2) Module taught in: English											
	Method	of asse	essment												

10-	Giovann	i Prodi	Lecture I	Moderr	Topics (Master)							
M=VGPMin-152-	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
m01	Courses			V (4) - Modu	+ Ü (2) le taught in: English	l						
	Method	of asse	essment	b) ora c) ora Langu Asses	written examination (approx. 90 to 120 minutes, usually chosen) or oral examination of one candidate each (approx. 20 minutes) or oral examination in groups (groups of 2, 15 minutes per candidate) anguage of assessment: English ssessment offered: In the semester in which the course is offered and in the subsequent semester reditable for bonus							
10-M=VGF-	Geomet	ric Com	plex Ana	lysis								
Tin-211-m01	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			V (4) - Modu	- Ü (2) le taught in: English	l						
			essment	b) ora c) ora Langu Asses credit	written examination (approx. 90 to 120 minutes, usually chosen) or oral examination of one candidate each (approx. 20 minutes) or oral examination in groups (groups of 2, 15 minutes per candidate) nguage of assessment: English sessment offered: in the semester in which the course is offered and in the subsequent semester editable for bonus							
10-M=VNA-					nd Applied Mathem							
Min-211-m01		10	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses				V (4) + Ü (2) Module taught in: English							
	Method	of asse	essment	b) ora c) ora Langu Asses	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 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-M=VKRY-	Cryptog	raphy/	Coding T	heory				'				
in-211-m01	ECTS	10	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	i		V (4) + Ü (2) Module taught in: English								
	Method of assessment			a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 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-M=VCA-	Compu	ter Alge	bra									
Lin-211-m01	ECTS	10	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	!S			+ Ü (2) le taught in: English							
	Method	d of ass	essment	b) ora c) ora Langu Asses	written examination (approx. 90 to 120 minutes, usually chosen) or oral examination of one candidate each (approx. 20 minutes) or oral examination in groups (groups of 2, 15 minutes per candidate) nguage of assessment: English seessment offered: in the semester in which the course is offered and in the subsequent semester editable for bonus							
10-M=VAZ-	Algorit	hmic Nu	ımber Th	eory								
Tin-211-m01	ECTS	10	Duratio	n	1 semester Method of grading numerical grade Modul level graduate							
	Course	·S			+ Ü (2) le taught in: English							
	Method	d of ass	essment	b) ora c) ora Langu Asses	l examination of one l examination in gro lage of assessment:	en examination (approx. 90 to 120 minutes, usually chosen) or examination of one candidate each (approx. 20 minutes) or examination in groups (groups of 2, 15 minutes per candidate) ge of assessment: English ment offered: in the semester in which the course is offered and in the subsequent semester ple for bonus						
10-M=VA-	Algebra	aic Geo	metry									
GEin-211-mo1	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	!S			V (4) + Ü (2) Module taught in: English							
	Method	d of ass	essment	b) ora c) ora Langu Asses	l examination of one l examination in gro lage of assessment:	e candidate each (ap ups (groups of 2, 15 r English	utes, usually chosen) or prox. 20 minutes) or minutes per candidate) the course is offered an		emester			
10-M=AAZ-		ic Numb	er Theory	/	,			'				
Tin-222-m01	ECTS	10	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			V (4) + Ü (2) Module taught in: English							
	Method	d of ass	essment	b) ora c) ora Langu Asses	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) canguage of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus							

10-M=VIP2in-222-	Inverse	Proble	ms 2									
mo1	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S			+ Ü (1) ıle taught in: English							
				b) ora c) ora Langu Asses credit	written examination (approx. 90 to 120 minutes, usually chosen) or oral examination of one candidate each (approx. 20 minutes) or oral examination in groups (groups of 2, 15 minutes per candidate) anguage of assessment: English ssessment offered: In the semester in which the course is offered and in the subsequent semester editable for bonus							
10-M=VAF-	Selecte	d Topic	s in Com	plex Ar	nalysis							
Tin-222-m01	ECTS	5	Duratio	n	1 semester	Modul level	graduate					
	Course	S			+ Ü (1) ıle taught in: English	l						
			essment	b) ora c) ora Langu Asses credit	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) anguage of assessment: English assessment offered: In the semester in which the course is offered and in the subsequent semester reditable for bonus							
Research in Groups					s)							
10-M=GAL-		ch in Gr	oups - Al	gebra								
Gin-152-m01	ECTS	10	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			+ S (2) lle taught in: English	1						
	Method	d of ass	essment	t talk (60 to 120 minutes) Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester								
10-M=GDI-	Resear	ch in Gr	oups - Di	screte	Mathematics							
Min-152-m01	ECTS	10	Duratio	n 1 semester Method of grading numerical grade Modul level graduate								
	Course	S		V (2) + S (2) Module taught in: English								
	Method	of assessment talk (60 to 120 minutes) Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester										

10-M=GDS-	Resear	ch in G	roups - Dy	namic	al Systems and Con	trol Theory		ı				
Cin-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			+ S (2) ıle taught in: English	1		,				
	Method	d of ass	essment	Langi	60 to 120 minutes) uage of assessments		the course is offered a	and in the subsequent se	emester			
10-M=G-	Resear	ch in G	roups - Co	mplex	Analysis			,				
COAin-152-mo1	ECTS	10	Duratio	 1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			(2) + S (2) lodule taught in: English							
	Method	d of ass	assessment talk (60 to 120 minutes) Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester						emester			
10-M=GGM-	Resear	Research in Groups - Geometry and Topology										
Tin-152-m01	ECTS	10	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses				+ S (2) ıle taught in: English	1		1	-			
	Method	d of ass	essment	Langi	talk (60 to 120 minutes) Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester							
10-M=GMC-	Resear	ch in G	roups - Ma	Mathematics in Context								
Xin-152-m01	ECTS	10	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			+ S (2) ıle taught in: English	1						
	Method	d of ass	essment									
10-M=GMS-	Resear	ch in G	roups - Ma	athem	atics in the Sciences	5						
Cin-152-m01	ECTS	10	Duratio						graduate			
	Course	S		V (2) + S (2) Module taught in: English								
	Method	d of ass	essment									

10-M=GMAI-	Resear	ch in G	roups - M	easure	and Integral							
in-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S	·		+ S (2) ıle taught in: English	l		•				
	Method	d of ass	essment		talk (60 to 120 minutes)							
					uage of assessment:		4la a a a					
10-M=GN-	Pocoar	ch in G	roups Nu		al Mathematics and		the course is offered a	and in the subsequent se	emester			
MAin-152-mo1	ECTS	10	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course		Duratio	V (2) + S (2) Module taught in: English								
	Method	thod of assessment talk (60 to 120 minutes) Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent						emester				
10-M=GRO-	Resear	search in Groups - Robotics, Optimization and Control Theory										
Cin-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S	,		+ S (2) ıle taught in: English	1						
	Method	d of ass	essment	Langi	talk (60 to 120 minutes) Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester							
10-M=GT-	Resear	ch in G	roups - Ti	me Series Analysis								
SAin-152-mo1	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S	·		+ S (2) ıle taught in: English	I		·				
	Method	d of ass	essment	Langi	60 to 120 minutes) uage of assessment: ssment offered: In th		the course is offered a	and in the subsequent se	emester			
10-M=G-	Resear	ch in G	roups - St	atistic	s			'				
STAin-152-mo1	ECTS	10	Duratio									
	Course	Courses			V (2) + S (2) Module taught in: English							
	Method	d of ass	essment									

10-M=GNTHin-152-	Rese	earch in G	roups - Nu	mber '	Theory			1	-				
mo1	ECTS	5 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Cou	rses			+ S (2) le taught in: English								
	Metl	hod of ass	essment	Langi	talk (60 to 120 minutes) Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester								
10-M=GCQ-	Rese	earch in G	roups - Co	ntrol T	heory of Quantum M	Mechanical Systems							
Sin-152-m01	ECTS	5 10	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Cou	rses			/ (2) + S (2) Module taught in: English								
	Metl	hod of ass	assessment talk (60 to 120 minutes) Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester										
10-M=GD-	Rese	earch in G	ch in Groups - Differential Geometry										
GEin-152-mo1	ECTS	5 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Cou	rses			+ S (2) le taught in: English			•					
	Metl	hod of ass	essment	Langu	oo to 120 minutes) lage of assessment: ssment offered: In th		the course is offered ar	nd in the subsequent se	emester				
10-M=GDF-	Research in Groups - Deformation Quantization												
Qin-152-m01	ECT5	5 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Cou	rses			+ S (2) le taught in: English								
	Metl	hod of ass	essment	Langi	talk (60 to 120 minutes) Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester								
10-M=GN-	Rese	earch in G	roups - No	n-line	ar Analysis								
LAin-152-m01	ECTS 10 Duratio			n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Cou	rses	,		V (2) + S (2) Module taught in: English								
	Metl	Method of assessment			talk (60 to 120 minutes) Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester								

10-M=GO-	Resear	ch in G	roups - O	erato	erator Algebras						
PAin-152-mo1	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S			+ S (2) lle taught in: English	1		·			
	Method	d of ass	essment		60 to 120 minutes)						
					lage of assessment		the :- effected				
10-M=SAD-	Somina	rin An	plied Diff		l Geometry	ie semester in wnich	the course is offered	and in the subsequent se	emester		
Gin-152-mo1		5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course		Duratio	S (2)	1 Semester	Method of grading	numencat grade	Modulitevel	graduate		
	Course.	3	Module taught in: English								
	Method	d of ass	talk (60 to 120 minutes) Language of assessment: English								
10-M=SAL-	Semina	Assessment offered: In the semester in which the course is offered and in the subsequent semester eminar in Algebra									
Gin-152-m01		5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S	-1	S (2) Modu	lle taught in: English	1					
	Method	d of ass	essment	Langi	talk (60 to 120 minutes) Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester						
10-M=SDS-	Semina	r in Dy	namical S	ystem	s and Control			,			
Cin-152-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		S (2) Modu	lle taught in: English	1					
	Method	d of ass	essment	Langi	60 to 120 minutes) uage of assessment ssment offered: In th		the course is offered	and in the subsequent se	emester		
10-M=S-	Semina	r in Co	mplex An	alysis				'			
COAin-152-mo1	ECTS	5	Duratio	n 1 semester Method of grading numerical grade Modul level graduate							
	Course	S		S (2) Module taught in: English							
	Method	d of ass	essment								

10-M=SFI-	Semina	r in Fin	ancial an	d Insu	ance Mathematics						
Min-152-m01	ECTS	5	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S	,	S (2) Modu	le taught in: English	1		,			
	Method	of ass	essment		60 to 120 minutes)						
					lage of assessment		the course is offered a	and in the subsequent se	am actor		
10-M=SGTO-	Somina	r in Go	ometry ar			e semester in winch	the course is offered a	and in the subsequent se	eniestei		
in-152-mo1		5	Duration	<u>_</u>	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course								Studute		
	Method	l of ass	essment	talk (d Langu	emester						
10-M=SGP-	Giovan	Giovanni Prodi Seminar (Master)									
Cin-152-m01	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S	,	S (2) Modu	le taught in: English	1		,			
	Method	l of ass	essment	Langi	talk (60 to 120 minutes) Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester						
10-M=SID-	Interdis	sciplina	ary Semin	ar							
Cin-152-m01	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S	·	S (2) Modu	le taught in: English	I					
	Method	l of ass	essment	Langi	60 to 120 minutes) lage of assessment: ssment offered: In th		the course is offered a	and in the subsequent se	emester		
10-M=SMS-	Semina	r Math	ematics i	the S	ciences						
Cin-152-m01	ECTS	5	Duratio	n 1 semester Method of grading numerical grade Modul level graduate							
	Course	S	,	S (2) Module taught in: English							
	Method	l of ass	essment								

10-M=SN-	Semina	ar in Nur	nerical M	athematics and Applied Analysis								
MAin-152-mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S	•	S (2) Modu	S (2) Module taught in: English							
	Method	d of asse	essment		talk (60 to 120 minutes)							
					Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester							
10-M=SOP-	Comina	r in Ont	imization		Sment onerea: in the	e semester in which	the course is offered a	and in the subsequent se	emester			
Tin-152-mo1	ECTS	5 5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course		Duration	S (2)	1 Semester	Method of glading	numerical grade	Modulitevel	graduate			
	Course	3			Module taught in: English							
	Method	d of asse	essment	Langu	60 to 120 minutes) uage of assessment: English ssment offered: In the semester in which the course is offered and in the subsequent semester							
10-M=S-	Semina	ar in Sta	tistics									
STAin-152-mo1	ECTS 5 Duratio		1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			S (2) Modu	le taught in: English							
	Method	d of asse	essment	Langu	talk (60 to 120 minutes) Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester							
10-M=SN-	Semina	ar in Nor	n-linear A	nalysis	alysis							
LAin-152-mo1	ECTS	5	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (2) Module taught in: English								
	Method	Method of assessment			talk (60 to 120 minutes) Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester							
10-M=SA-	Semina	ar in App	lied Mat	hemati	cs							
MAin-211-m01	ECTS 5 Duratio							graduate				
	Course	S		S (2) Modu	S (2) Module taught in: English							
	Method	d of asse	essment	talk (60 to 120 minutes) Language of assessment: English Assessment offered: in the semester in which the course is offered and in the subsequent semester								

10-M=GLI-	Resear	ch in G	roups - Lic	Theo	ry						
Ein-211-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S			+ S (2) lle taught in: English	1		,			
	Method	d of ass	essment		60 to 120 minutes)						
					lage of assessment:		the course is offered :	and in the subsequent se	omostor		
10-M=GAD-	Resear	ch in G	rouns - Ar		Differential Geometi		the course is offered a	and in the subsequent se	emester		
Gin-211-m01	ECTS	10	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	rses V (2) + S (2) Module taught in: English									
	Method	d of ass	talk (60 to 120 minutes) Language of assessment: English Assessment offered: in the semester in which the course is offered and in the subsequent se						emester		
10-M=GMA-	Resear	esearch in Groups - Mathematical Physics									
Pin-211-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S			+ S (2) lle taught in: English	1		,			
	Method	d of ass	essment	Langi	talk (60 to 120 minutes) Language of assessment: English Assessment offered: in the semester in which the course is offered and in the subsequent semester						
10-M=GH-	Resear	ch in G	roups - Hi	gher S	tructures						
STin-222-m01	ECTS	10	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S			+ S (2) le taught in: English	l					
	Method	d of ass	essment	Langi	60 to 120 minutes) lage of assessment: ssment offered: In th		the course is offered a	and in the subsequent se	emester		
10-M=GFA-	Resear	ch in G	roups - Fu	nction	al Analysis			'			
Nin-222-m01	ECTS	10	Duratio								
	Courses			V (2) + S (2) Module taught in: English							
	Method	d of ass	essment	talk (60 to 120 minutes) Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester							

10-M=GIN-	Resear	ch in Gr	oups - Inv	erse P	roblems							
Pin-222-m01	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (2) - Modu	- S (2) le taught in: English								
	Method of assessment			talk (60 to 120 minutes) Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester								
Thesis (30 ECTS cre	edits)											
10-M=MA-	Master	Thesis	Mathema	tics In	tics International							
MI-152-m01	ECTS	30	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		No courses assigned to module								
	Method of assessment			Regist	Master's thesis (750 to 900 hours total) Registration and assignment of topic in consultation with supervisor. Language of assessment: English							
	Additio	nal Info	rmation	Time to complete: 6 months								