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## **Annex SFB**

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

Responsible: Faculty of Mathematics and Computer Science Responsible: Institute of Mathematics Examination regulations version: 2025 Examination regulations version: 2025

Abbreviations used:	Course types: $\mathbf{E}$ = field trip, $\mathbf{K}$ = colloquium, $\mathbf{O}$ = conversatorium, $\mathbf{P}$ = placement/lab course, $\mathbf{R}$ = project, $\mathbf{S}$ = seminar, $\mathbf{T}$ = tutorial, $\mathbf{\ddot{U}}$ = exercise, $\mathbf{V}$ = lecture
	Term: <b>SS</b> = summer semester, <b>WS</b> = winter semester
	Methods of grading: <b>NUM</b> = numerical grade, <b>B/NB</b> = (not) successfully completed
	Regulations: <b>(L)ASPO</b> = general academic and examination regulations (for teaching-degree programmes), <b>FSB</b> = subject-specific provisions, <b>SFB</b> = list of modules
	Other: <b>A</b> = thesis, <b>LV</b> = course(s), <b>PL</b> = assessment(s), <b>TN</b> = participants, <b>VL</b> = prerequisite(s)
Conventions for the modules in this SFB:	Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not cre- ditable for bonus.
Information on assessment procedures:	Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the me- 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:

#### ASPO2015

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

### ??-???-2025 (2025-??)

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	ecified in the form X	(y) with course type X	abbreviated as specified abo	ve and number of we	ekly contact hours y
	Method of as	ssessm	ent					
	Only after su completion of		Il if applica	ble				
	Other prereq	uisites	if applica	if applicable				
	Participants on of places		ocati- if applica	ble				
	Additional in	formati	on if applica	if applicable				
	Referred to in	n LPO I	if applica	ble (examination re	gulations for teaching	g-degree programmes)		

Compulsory Elec	tives (90 E	CTS cre	edits)								
Mathematics (30	ECTS crea	dits)									
10-M=AAA-	Applie	Applied Analysis									
Nin-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						
	Metho	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) 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 Alge	bra								
Gin-152-m01	ECTS 10 Duratio		n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	Courses			V (4) + Ü (2) Module taught in: English						
	Metho	Method of assessment			al examination of on l examination in gro Jage of assessment:	e candidate each (ap ups (groups of 2, 15 English	utes, usually chosen) or prox. 20 minutes) or ninutes per candidate) the course is offered an		emester		
10-M=ADG-	Differe	ntial Ge	eometry								
Min-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	Courses			V (4) + Ü (2) Module taught in: English						
	Method of assessment			b) ora c) ora Langu Asses	al examination of on l examination in gro Jage of assessment:	e candidate each (ap ups (groups of 2, 15 English			emester		

10-M=AFT-	Comple	ex Anal	ysis							
Hin-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	S			V (4) + Ü (2) Module taught in: English					
	Metho	d of ass	sessment	b) ora c) ora Langi Asses	al examination of I examination in g Jage of assessme	(approx. 90 to 120 minutes, usually chosen) or one candidate each (approx. 20 minutes) or groups (groups of 2, 15 minutes per candidate) nt: English the semester in which the course is offered and	in the subsequent s	emester		
10-M=AGM-	Geome	tric Str	uctures							
Sin-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	S			+ Ü (2) ıle taught in: Engl	ish				
	Method of assessment			b) ora c) ora Langi Asses	al examination of Il examination in g Jage of assessme	(approx. 90 to 120 minutes, usually chosen) or one candidate each (approx. 20 minutes) or groups (groups of 2, 15 minutes per candidate) nt: English the semester in which the course is offered and	in the subsequent se	emester		
10-M=AI-	Indust	Industrial Statistics 1								
STin-152-m01	ECTS 10 Duratio		n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	Courses			V (4) + Ü (2) Module taught in: English					
	Metho	d of ass	sessment	b) ora c) ora Langu Asses	al examination of I examination in g Jage of assessme	(approx. 90 to 120 minutes, usually chosen) or one candidate each (approx. 20 minutes) or groups (groups of 2, 15 minutes per candidate) nt: English the semester in which the course is offered and	in the subsequent s	emester		
10-M=AL-	Lie The	eory								
THin-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	S		V (4) + Ü (2) Module taught in: English						
	Metho	d of ass	sessment	b) ora c) ora Langu Asses	al examination of I examination in g Jage of assessme	(approx. 90 to 120 minutes, usually chosen) or one candidate each (approx. 20 minutes) or groups (groups of 2, 15 minutes per candidate) nt: English the semester in which the course is offered and	in the subsequent s	emester		

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10-M=ANG-	Numer	ic of Laı	ge Syster	ns of E	quations					
Gin-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	S			/ (4) + Ü (2) Nodule taught in: English					
	Metho	d of ass	essment	b) ora c) ora Langu Asses	al examination of c l examination in g Jage of assessmer	(approx. 90 to 120 minutes, usually chosen) or one candidate each (approx. 20 minutes) or roups (groups of 2, 15 minutes per candidate) nt: English the semester in which the course is offered and i	n the subsequent s	emester		
10-M=AOP-	Basics	in Opti	mization							
Tin-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	S			+ Ü (2) Ile taught in: Engli	sh				
	Metho	d of ass	essment	b) ora c) ora Langu Asses	al examination of c l examination in g Jage of assessmer	(approx. 90 to 120 minutes, usually chosen) or one candidate each (approx. 20 minutes) or roups (groups of 2, 15 minutes per candidate) nt: English the semester in which the course is offered and i	n the subsequent s	emester		
10-M=AR-	Control Theory									
THin-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	Courses			V (4) + Ü (2) Module taught in: English					
	Metho	d of ass	essment	b) ora c) ora Langu Asses	al examination of c l examination in g Jage of assessmer	(approx. 90 to 120 minutes, usually chosen) or one candidate each (approx. 20 minutes) or roups (groups of 2, 15 minutes per candidate) nt: English the semester in which the course is offered and i	n the subsequent s	emester		
10-M=ASM-	Stocha	stic Mo	dels of Ri	sk Ma	nagement					
Rin-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	S		V (4) + Ü (2) Module taught in: English						
	Metho	d of ass	essment	b) ora c) ora Langu Asses	al examination of c l examination in g Jage of assessmer	(approx. 90 to 120 minutes, usually chosen) or one candidate each (approx. 20 minutes) or roups (groups of 2, 15 minutes per candidate) nt: English the semester in which the course is offered and i	n the subsequent s	emester		

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10-M=AST-	Stocha	stical P	rocesses							
Pin-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	S			V (4) + Ü (2) Module taught in: English					
	Metho	d of ass	essment	b) ora c) ora Langu Asses	el examination of ا l examination in ی uage of assessme	(approx. 90 to 120 minutes, usually chosen) or one candidate each (approx. 20 minutes) or groups (groups of 2, 15 minutes per candidate) nt: English the semester in which the course is offered and	in the subsequent se	emester		
10-M=ATO-	Topolo	gy								
Pin-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	S			+ Ü (2) Ile taught in: Engl	ish	· ·			
	Metho	d of ass	essment	b) ora c) ora Langu Asses	al examination of ا ا examination in المعود of assessme	(approx. 90 to 120 minutes, usually chosen) or one candidate each (approx. 20 minutes) or groups (groups of 2, 15 minutes per candidate) nt: English the semester in which the course is offered and	in the subsequent se	emester		
10-M=AVS-	Insurance Mathematics 1									
Min-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					
	Metho	d of ass	essment	b) ora c) ora Langu Asses	el examination of ا l examination in ی uage of assessme	(approx. 90 to 120 minutes, usually chosen) or one candidate each (approx. 20 minutes) or groups (groups of 2, 15 minutes per candidate) nt: English the semester in which the course is offered and	in the subsequent se	emester		
10-M=AZ-	Time S	eries Ar	nalysis							
RAin-222-m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	S		V (4) + Ü (2) Module taught in: English						
	Metho	d of ass	essment	b) ora c) ora Langu Asses	l examination of ا l examination in ی uage of assessme	(approx. 90 to 120 minutes, usually chosen) or one candidate each (approx. 20 minutes) or groups (groups of 2, 15 minutes per candidate) nt: English the semester in which the course is offered and	in the subsequent s	emester		

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10-M=AZTHin-152-	Numbe	r Theor	y							
m01	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 or l examination in gro lage of assessment	approx. 90 to 120 minutes, usually chosen) or ne candidate each (approx. 20 minutes) or oups (groups of 2, 15 minutes per candidate) :: English he semester in which the course is offered and i	n the subsequent so	emester		
10-M=AGP-	Giovan	ni Prod	i Lecture (	(Maste	r)					
Cin-152-m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	S			⊦ Ü (1) le taught in: Englis	h				
	Methoo	d of ass	essment	b) ora c) ora Langu Asses	<ul> <li>a) written examination (approx. 60 to 90 minutes, usually chosen) or</li> <li>b) oral examination of one candidate each (approx. 15 minutes) or</li> <li>c) oral examination in groups (groups of 2, approx. 10 minutes per candidate)</li> <li>Language of assessment: English</li> <li>Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus</li> </ul>					
10-M=VA-	Selected Topics in Analysis									
NAin-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					
	Methoo	d of ass	essment	b) ora c) ora Langu Asses	l examination of or l examination in gro lage of assessment	approx. 90 to 120 minutes, usually chosen) or ne candidate each (approx. 20 minutes) or oups (groups of 2, 15 minutes per candidate) :: English he semester in which the course is offered and i	n the subsequent se	emester		
10-M=VAT-	Algebra	aic Top	ology							
Pin-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	d of ass	essment	b) ora c) ora Langu Asses	l examination of or l examination in gro lage of assessment	approx. 90 to 120 minutes, usually chosen) or ne candidate each (approx. 20 minutes) or oups (groups of 2, 15 minutes per candidate) :: English he semester in which the course is offered and i	n the subsequent se	emester		

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10-M=VFN-	Selecte	ed Topio	s in Finar	ncial M	athematics					
Min-152-m01	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	al examination of c I examination in g Jage of assessmer	(approx. 90 to 120 minutes, usually chosen) or one candidate each (approx. 20 minutes) or roups (groups of 2, 15 minutes per candidate) nt: English the semester in which the course is offered and i	n the subsequent se	emester		
10-M=VGD-	Groups	and th	eir Repres	sentat	ions					
Sin-152-m01	ECTS	10	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	S			+ Ü (2) ıle taught in: Engli	sh				
	Methoo	d of ass	essment	b) ora c) ora Langu Asses	al examination of c Il examination in g Jage of assessmer	(approx. 90 to 120 minutes, usually chosen) or one candidate each (approx. 20 minutes) or roups (groups of 2, 15 minutes per candidate) nt: English the semester in which the course is offered and i	n the subsequent se	emester		
10-M=VGE-	Geome	Geometrical Mechanics								
Min-152-m01	ECTS	10	Duration		1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	Courses			V (4) + Ü (2) Module taught in: English					
	Methoo	d of ass	essment	b) ora c) ora Langu Asses	al examination of c I examination in g Jage of assessmer	(approx. 90 to 120 minutes, usually chosen) or one candidate each (approx. 20 minutes) or roups (groups of 2, 15 minutes per candidate) nt: English the semester in which the course is offered and i	n the subsequent se	emester		
10-M=VI-	Industr	rial Stat	istics 2							
STin-152-m01	ECTS	10	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	S		V (4) + Ü (2) Module taught in: English						
	Methoo	d of ass	essment	b) ora c) ora Langu Asses	al examination of c Il examination in g Jage of assessmer	(approx. 90 to 120 minutes, usually chosen) or one candidate each (approx. 20 minutes) or roups (groups of 2, 15 minutes per candidate) nt: English the semester in which the course is offered and i	n the subsequent s	emester		

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10-M=VKA-	Field A	Field Arithmetics											
Rin-152-m01	ECTS 10 Duration			n	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	S			+ Ü (2) Ile taught in: Engli	sh							
	Methoo	d of ass	essment	b) ora c) ora Langu Asses	al examination of a l examination in g uage of assessme	(approx. 90 to 120 minutes, usually chosen) or one candidate each (approx. 20 minutes) or groups (groups of 2, 15 minutes per candidate) nt: English the semester in which the course is offered and i	n the subsequent s	emester					
10-M=VN-	Numeri	ic of Paı	tial Diffe	rential	Equations								
PEin-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	S			+ Ü (2) Ile taught in: Engli	sh							
	Methoo	d of ass	essment	b) ora c) ora Langu Asses	al examination of l examination in g Jage of assessme	(approx. 90 to 120 minutes, usually chosen) or one candidate each (approx. 20 minutes) or groups (groups of 2, 15 minutes per candidate) nt: English the semester in which the course is offered and i	n the subsequent s	emester					
10-M=VOP-	Selected Topics in Optimization												
Tin-152-m01	ECTS 10 Duration			1 semester	Method of grading numerical grade	Modul level	graduate						
	Courses				V (4) + Ü (2) Module taught in: English								
	Method of assessment			b) ora c) ora Langu Asses	al examination of o l examination in g uage of assessme	(approx. 90 to 120 minutes, usually chosen) or one candidate each (approx. 20 minutes) or groups (groups of 2, 15 minutes per candidate) nt: English the semester in which the course is offered and i	n the subsequent s	emester					
10-M=V-	Mather	matical	Statistics	;									
STAin-222-m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	Courses			V (4) + Ü (2) Module taught in: English								
	Methoo	d of ass	essment	b) ora c) ora Langu Asses	al examination of o l examination in g Jage of assessme	(approx. 90 to 120 minutes, usually chosen) or one candidate each (approx. 20 minutes) or groups (groups of 2, 15 minutes per candidate) nt: English the semester in which the course is offered and i	n the subsequent s	emester					

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10-M=VVS-	Insura	Insurance Mathematics 2											
Min-152-m01	ECTS 10 Duration			n	1 semester	Method of grading numerical grade	Modul leve	l graduate					
	Course	S			+ Ü (2) Ile taught in: Engli	sh							
	Method	d of ass	essment	b) ora c) ora Langu Asses	al examination of o l examination in g Jage of assessme	(approx. 90 to 120 minutes, usually chose one candidate each (approx. 20 minutes) c groups (groups of 2, 15 minutes per candid nt: English the semester in which the course is offere	or ate)	semester					
10-M=VDI-	Discret	e Math	ematics										
Min-152-m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	l graduate					
	Course	S		V (3) Modu	+ Ü (1) Ile taught in: Engli	sh							
	Methoo	d of ass	essment	b) ora c) ora Langu Asses	al examination of l examination in g Jage of assessme	(approx. 60 to 90 minutes, usually chosen one candidate each (approx. 15 minutes) o groups (groups of 2, approx. 10 minutes pe nt: English the semester in which the course is offere	r r candidate)	semester					
10-M=VDSY-	Dynamical Systems												
in-152-m01	ECTS	5	Duratio		1 semester	Method of grading numerical grade	Modul leve	l graduate					
	Course	S			+ Ü (1) Ile taught in: Engli	sh							
	Method of assessment			b) ora c) ora Langu Asses	al examination of l examination in g Jage of assessme	(approx. 60 to 90 minutes, usually chosen one candidate each (approx. 15 minutes) o groups (groups of 2, approx. 10 minutes pe nt: English the semester in which the course is offere	r r candidate)	semester					
10-M=V-	Aspect	s of Ge	ometry										
GEOin-152-m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul leve	l graduate					
	Course	S			+ Ü (1) Ile taught in: Engli	sh							
	Method	d of ass	essment	b) ora c) ora Langu Asses	al examination of o l examination in g Jage of assessme	(approx. 60 to 90 minutes, usually chosen one candidate each (approx. 15 minutes) o groups (groups of 2, approx. 10 minutes pe nt: English the semester in which the course is offere	r r candidate)	semester					

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10-M=V-	Mathe	matical	Continuu	m Mec	hanics					
KOMin-152-mo1	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	S			+ Ü (1) ıle taught in: Engli	ish				
	Metho	d of ass	essment	b) ora c) ora Langu Asses	al examination of o Il examination in g Jage of assessme	(approx. 60 to 90 minutes, usually chosen) of one candidate each (approx. 15 minutes) or groups (groups of 2, approx. 10 minutes per c nt: English the semester in which the course is offered a	andidate)	emester		
10-M=VMB-	Mathe	matical	Imaging							
Vin-152-m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	S			+ Ü (1) ıle taught in: Engli	ish				
	Metho	d of ass	essment	b) ora c) ora Langu Asses	al examination of o Il examination in g Jage of assessme	(approx. 60 to 90 minutes, usually chosen) of one candidate each (approx. 15 minutes) or groups (groups of 2, approx. 10 minutes per c nt: English the semester in which the course is offered a	candidate)	emester		
10-M=VM-	Selected Topics in Mathematical Physics									
PHin-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 assessment			b) ora c) ora Langu Asses	al examination of o Il examination in g Jage of assessme	(approx. 90 to 120 minutes, usually chosen) one candidate each (approx. 20 minutes) or groups (groups of 2, 15 minutes per candidate nt: English the semester in which the course is offered a	e)	emester		
10-M=V-	Selecte	ed Topi	cs in Cont	rol The	eory					
TRTin-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	S		V (4) + Ü (2) Module taught in: English						
	Metho	d of ass	essment	b) ora c) ora Langu Asses	al examination of o Il examination in g Jage of assessme	(approx. 90 to 120 minutes, usually chosen) one candidate each (approx. 20 minutes) or groups (groups of 2, 15 minutes per candidate nt: English the semester in which the course is offered a	e)	emester		

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10-M=VI-	Inverse	Inverse Problems 1											
PRin-222-m01	ECTS	5	Duratio	n	1 semester	Method of grading numerica	al grade	Modul level	graduate				
	Course	S			+ Ü (1)	ch							
					lle taught in: Engl								
	Method of assessment			b) ora	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)								
				Langı Asses	lage of assessme				emester				
10-M=VMT-	Module	e Theory	,										
Hin-152-m01	ECTS	5	Duratio	n	1 semester	Method of grading numerica	al grade	Modul level	graduate				
	Course	S		V (3) · Modu	+ Ü (1) Ile taught in: Engl	sh							
	Methoo	d of asso	essment	b) ora c) ora Langu Asses	l examination of و l examination in uage of assessme	(approx. 60 to 90 minutes, usual one candidate each (approx. 15 n groups (groups of 2, approx. 10 m nt: English the semester in which the course	ninutes) or iinutes per candidate	-	emester				
10-M=VNA-	Non-linear Analysis												
Nin-152-m01	ECTS 5 Duration			n	1 semester	Method of grading numerica	al grade	Modul level	graduate				
	Courses			V (3) + Ü (1) Module taught in: English									
	Method of assessment			b) ora c) ora Langu Asses	el examination of e l examination in و uage of assessme	(approx. 60 to 90 minutes, usual one candidate each (approx. 15 n roups (groups of 2, approx. 10 m nt: English the semester in which the course	ninutes) or iinutes per candidate	-	emester				
10-M=V0-	Optima	l Contro	ol										
STin-152-m01	ECTS	5	Duratio		1 semester	Method of grading numerica	al grade	Modul level	graduate				
	Course	S		V (3) + Ü (1) Module taught in: English									
	Methoo	d of asso	essment	b) ora c) ora Langu Asses	l examination of و l examination in uage of assessme	(approx. 60 to 90 minutes, usual one candidate each (approx. 15 n groups (groups of 2, approx. 10 m nt: English the semester in which the cours	ninutes) or iinutes per candidate		emester				

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10-M=VVSY-	Networ	ked Sys	stems							
in-152-m01	ECTS 5 Duration			n	1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	S			+ Ü (1) Ile taught in: Engli	sh		_		
	Methoo	d of asse	essment	b) ora c) ora Langu Asses	al examination of c l examination in g Jage of assessmer	(approx. 60 to 90 minutes, usually chosen) or one candidate each (approx. 15 minutes) or roups (groups of 2, approx. 10 minutes per can nt: English the semester in which the course is offered and		emester		
10-M=VK-	Comple	ex Geom	netry							
GEin-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	S			+ Ü (2) Ile taught in: Engli	sh				
	Methoo	d of asse	essment	b) ora c) ora Langu Asses	al examination of c l examination in g Jage of assessmer	(approx. 90 to 120 minutes, usually chosen) or one candidate each (approx. 20 minutes) or roups (groups of 2, 15 minutes per candidate) nt: English the semester in which the course is offered and	d in the subsequent s	emester		
10-M=VPD-	Partial Differential Equations of Mathematical Physics									
Pin-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 assessment			b) ora c) ora Langu Asses	al examination of c l examination in g Jage of assessmer	(approx. 90 to 120 minutes, usually chosen) or one candidate each (approx. 20 minutes) or roups (groups of 2, 15 minutes per candidate) nt: English the semester in which the course is offered and	d in the subsequent s	emester		
10-M=V-	Pseudo	Riema	nnian and	l Riem	annian Geometry					
PRGin-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	S		V (4) + Ü (2) Module taught in: English						
	Methoo	d of asse	essment	b) ora c) ora Langu Asses	l examination of c l examination in g Jage of assessmer	(approx. 90 to 120 minutes, usually chosen) or one candidate each (approx. 20 minutes) or roups (groups of 2, 15 minutes per candidate) nt: English the semester in which the course is offered and	d in the subsequent s	emester		

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10-M=AFA-	Functio	Functional Analysis											
Nin-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	S			+ Ü (2)								
					le taught in: Engli								
	Metho	d of ass	essment	a) wri   b) ora	tten examination Il examination of c	(approx. 90 to 120 minutes, usually chosen) or one candidate each (approx. 20 minutes) or							
				c) ora	l examination in g	groups (groups of 2, 15 minutes per candidate)							
					lage of assessme	nt: English the semester in which the course is offered and	d in the subsequent s	omostor					
					able for bonus	the semester in which the course is onered and	a in the subsequent s	emester					
10-M=VAD-		d Differ	ential Geo	ometry									
Gin-152-m01	ECTS	10	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	S			+ Ü (2)	ich.							
	Matha	doface	occmont		le taught in: Engli	(approx. 90 to 120 minutes, usually chosen) or		_					
	Metho	u or ass	essment	b) ora	ll examination of c	one candidate each (approx. 20 minutes) or							
				c) ora	l examination in g	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								
					sment offered: In able for bonus	the semester in which the course is offered and	d in the subsequent s	emester					
10-M=VG-	Giovanni Prodi Lecture Selected Topics (Master)												
PSin-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	Courses			V (4) + Ü (2) Module taught in: English								
	Metho	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								
						the semester in which the course is offered and	d in the subsequent s	emester					
10-M=VG-	Giovan	ni Prod	i Lecture /		ed Topics (Maste	r)							
PAin-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	S			V (4) + Ü (2) Module taught in: English								
	Metho	Method of assessment											
				Langı Asses	lage of assessme	the semester in which the course is offered and	d in the subsequent s	emester					

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10-	Giovanni Prodi Lecture Modern Topics (Master)										
M=VGPMin-152-	ECTS 10 Duration		1	1 semester	Method of grading numerical grade	Modul level	graduate				
m01	Course	es			+ Ü (2) ıle taught in: Engl	ish	·				
	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=VGF-	Geome	etric Con	nplex Ana	lysis							
Tin-211-m01	ECTS	10	Duratio	า	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	!S	-		+ Ü (2) ıle taught in: Engl	ish					
	Metho	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) 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=VNA-	Selected Topics in Numerical and Applied Mathematics										
Min-211-m01	ECTS 10 Duration			1	1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses				V (4) + Ü (2) Module taught in: English						
	Metho	d of ass	essment	b) ora c) ora Langu Asses	al examination of I examination in g Jage of assessme	(approx. 90 to 120 minutes, usually chosen) or one candidate each (approx. 20 minutes) or groups (groups of 2, 15 minutes per candidate) ent: English o the semester in which the course is offered and i	in the subsequent s	emester			
10-M=VKRY-	Crypto	graphy/	Coding T	heory							
in-211-m01	ECTS	10	Duratio	ı	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		V (4) + Ü (2) Module taught in: English							
	Metho	d of ass	essment	b) ora c) ora Langu Asses	al examination of Il examination in g Jage of assessme	(approx. 90 to 120 minutes, usually chosen) or one candidate each (approx. 20 minutes) or groups (groups of 2, 15 minutes per candidate) ent: English the semester in which the course is offered and i	in the subsequent s	emester			

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10-M=VCA-	Compu	ter Alg	ebra									
Lin-211-m01	ECTS 10 Duration			n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S			+ Ü (2) ıle taught in: Engl	ish						
	Metho	d of ass	sessment	b) ora c) ora Lang Asses	al examination of al examination in g uage of assessme	(approx. 90 to 120 minutes, usually chosen) or one candidate each (approx. 20 minutes) or groups (groups of 2, 15 minutes per candidate) nt: English the semester in which the course is offered and i	in the subsequent s	emester				
10-M=VAZ-	Algorit	hmic N	umber Th	eory								
Tin-211-m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S			+ Ü (2) ıle taught in: Engl	ish						
	Metho	d of ass	sessment	b) ora c) ora Lang Asses	al examination of al examination in g uage of assessme	(approx. 90 to 120 minutes, usually chosen) or one candidate each (approx. 20 minutes) or groups (groups of 2, 15 minutes per candidate) nt: English the semester in which the course is offered and i	in the subsequent s	emester				
10-M=VA-	Algebr	Algebraic Geometry										
GEin-211-m01	ECTS 10 Duration		n	1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses				V (4) + Ü (2) Module taught in: English							
	Metho	d of ass	sessment	b) ora c) ora Langi Asses	al examination of al examination in g uage of assessme	(approx. 90 to 120 minutes, usually chosen) or one candidate each (approx. 20 minutes) or groups (groups of 2, 15 minutes per candidate) nt: English the semester in which the course is offered and i	in the subsequent s	emester				
10-M=AAZ-	Analyti	ic Numl	per Theory	,								
Tin-222-m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	Courses			V (4) + Ü (2) Module taught in: English							
	Metho	d of ass	sessment	b) ora c) ora Langi Asses	al examination of e al examination in g uage of assessme	(approx. 90 to 120 minutes, usually chosen) or one candidate each (approx. 20 minutes) or groups (groups of 2, 15 minutes per candidate) nt: English the semester in which the course is offered and i	in the subsequent s	emester				

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10-M=VIP2in-222-	Inverse Proble	ems 2	ns 2						
m01	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Courses		V (3) - Modu	⊦ Ü (1) le taught in: Englis	h		_		
	Method of ass		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=VAF-	Selected Topic		-	alysis		<u>.</u>			
Tin-222-m01	ECTS 5	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate		
	Courses		V (3) - Modu	⊦ Ü (1) le taught in: Englis	h				
	Method of ass		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=AAM-	Selected Topics in Mathematical Logic								
Lin-252-m01	ECTS 5	ECTS 5 Duratio		1 semester	Method of grading numerical grade	Modul level			
	Courses		Modu	V (3) + Ü (1) Module taught in: English					
	Method of ass	essment	b) ora c) ora Langu Asses	l examination of or l examination in gro lage of assessment	approx. 60 to 120 minutes, usually chosen) or ne candidate each (approx. 15 minutes) or oups (groups of 2, 10 minutes per candidate) : English ne semester in which the course is offered and in t	he subsequent se	emester		
10-M=AHA-	Harmonic Ana	-					- K		
Nin-252-m01	ECTS 10	Duratio		1 semester	Method of grading numerical grade	Modul level			
	Courses		V (4) - Modu	⊦ Ü (2) le taught in: Englis	h				
	Method of ass	essment	b) ora c) ora Langu Asses	l examination of or l examination in gro lage of assessment	approx. 60 to 120 minutes, usually chosen) or ne candidate each (approx. 20 minutes) or oups (groups of 2, 15 minutes per candidate) : English ne semester in which the course is offered and in t	he subsequent se	emester		

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10-M=AMM-	Mathematical Data Science and Machine Learning											
Lin-252-m01	ECTS 10	Duratio	n	1 semester	Method of grading numerical grade	Modul level						
	Courses			+ Ü (2) Ile taught in: Engli	sh							
	Method of a	assessment	b) ora c) ora Langu	l examination of c	(approx. 90 to 120 minutes, usually chosen) or one candidate each (approx. 20 minutes) or roups (groups of 2, 15 minutes per candidate) nt: English							
10-M=VMM-	Advanced T	opics in Mat	hematics of Machine Learning									
Lin-252-m01	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul level						
	Courses		V (3) · Modu	+ Ü (1) lle taught in: Engli	sh							
	Method of a	assessment	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, 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-	Mathematical Applications in the Sciences 1											
M=MAS1in-252-	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul level						
m01	Courses			V (3) + Ü (1) Module taught in: English								
	Method of a	assessment	b) ora c) ora Langu Asses	ll examination of c l examination in g lage of assessmer	(approx. 60 to 90 minutes, usually chosen) or one candidate each (approx. 15 minutes) or roups (groups of 2, 10 minutes per candidate) nt: English the semester in which the course is offered and	d in the subsequent ser	nester					
10-	Mathemati	cal Applicati	ons in	the Sciences 2								
M=MAS2in-252- mo1	ECTS 5	Duratio		1 semester	Method of grading numerical grade	Modul level						
	Courses		V (3) + Ü (1) Module taught in: English									
	Method of a	assessment	b) ora c) ora Langu Asses	ll examination of c l examination in g lage of assessmer	(approx. 60 to 90 minutes, usually chosen) or one candidate each (approx. 15 minutes) or roups (groups of 2, 10 minutes per candidate) nt: English the semester in which the course is offered and	d in the subsequent ser	nester					

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10-	Mathe	matical	Applicati	ons in t						
M=MAS3in-252-	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level		
m01	Course	S			+ Ü (2) le taught in: Englisł	1			-	
	Metho	d of ass	essment	b) ora c) ora Langu Asses	a) written examination (approx. 60 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 creditable for bonus					
10-	Mathe	matical	Applicati	ons in t	the Sciences 4					
M=MAS4in-252-	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level		
m01	Courses				+ Ü (2) le taught in: Englisł	ı				
	Method of assessment			<ul> <li>a) written examination (approx. 60 to 120 minutes, usually chosen) or</li> <li>b) oral examination of one candidate each (approx. 20 minutes) or</li> <li>c) oral examination in groups (groups of 2, 15 minutes per candidate)</li> <li>Language of assessment: English</li> <li>Assessment offered: in the semester in which the course is offered and in the subsequent semester creditable for bonus</li> </ul>					emester	
<b>Research in Groups</b>	s and Se	minars	(20 ECTS	credite	5)					
10-M=GAL-	Research in Groups - Algebra									
Gin-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses			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=GDI-	Resear	rch in Gr	oups - Di	iscrete 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						
	Metho	d of ass	essment	Langu	50 to 120 minutes) lage of assessment sment offered: In th		the course is offered and	in the subsequent se	emester	

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10-M=GDS-	Resear	Research in Groups - Dynamical Systems and Control Theory											
Cin-152-m01	ECTS 10 Duration			n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	2S			+ S (2) Ile taught in: English								
	Metho	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=G-	Resear	rch in Gr	oups - Co	mplex	Analysis								
COAin-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	es	-		+ S (2) Ile taught in: English								
	Method of assessment			Langi	60 to 120 minutes) Jage of assessment: Ssment offered: In th		the course is offered and in the	e subsequent se	emester				
10-M=GGM-	Resear	rch in Gr	oups - Ge	eometr	ometry and Topology								
Tin-152-m01	ECTS 10 Duratio			n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			V (2) + S (2) Module taught in: English									
	Method of assessment			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-	Research in Groups - Mathematics in Context												
Xin-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			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=GMS-	Resear	rch in Gr	oups - M	athematics in the Sciences									
Cin-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	25		V (2) + S (2) Module taught in: English									
	Metho	d of ass	essment	Langi	60 to 120 minutes) Jage of assessment: Ssment offered: In th		the course is offered and in the	e subsequent se	emester				

10-M=GMAI-	Research in Groups - Measure and Integral												
in-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	es		V (2) + S (2) Module taught in: English									
	Metho	d of ass	sessment	Lang	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-	Resea	Research in Groups - Numerical Mathematics and Applied Analysis											
MAin-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	es			V (2) + S (2) Module taught in: English								
	Metho	d of ass	sessment	Lang	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=GRO-	Resea	Research in Groups - Robotics, Optimization and Control Theory											
Cin-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			V (2) + S (2) Module taught in: English									
	Metho	d of ass	sessment	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-	Research in Groups - Time Series Analysis												
SAin-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			V (2) + S (2) Module taught in: English									
	Metho	d of ass	sessment	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=G-	Resea	rch in G	roups - St	atistic	S								
STAin-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			V (2) + S (2) Module taught in: English									
	Metho	d of ass	sessment	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=GNTHin-152-	- Research in Groups - Number Theory										
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						
	Methoo	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=GD-	Resear	ch in Gi	roups - Di								
GEin-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S			+ S (2) Ile taught in: English						
	Method of assessment			Langi	alk (60 to 120 minutes) anguage of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester						
10-M=GDF-	Resear	ch in Gi	roups - De	eforma	ormation Quantization						
Qin-152-m01	ECTS 10 Duratio			n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			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=GN-	Research in Groups - Non-linear Analysis										
LAin-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							
	Methoo	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=GO-	Resear	ch in Gı	roups - Op	perato	Algebras						
PAin-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=SAD-	Semina	r in Apj	in Applied Differential Geometry									
Gin-152-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5		S (2) Modu	S (2) Module taught in: English							
	Method of assessment			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=SAL-	Semina	r in Alg	ebra									
Gin-152-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			S (2) Modu								
	Method	of ass	essment	Langi	Ilk (60 to 120 minutes) anguage of assessment: English ssessment offered: In the semester in which the course is offered and in the subsequent semester							
10-M=SDS-	Semina	Seminar in Dynamical Systems and Control										
Cin-152-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			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=S-	Seminar in Complex Analysis											
COAin-152-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			S (2) Module taught in: English								
	Method	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=SFI-	Semina	r in Fin	ancial an	d Insu	rance Mathematics							
Min-152-m01	ECTS 5 Duratio		Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			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=SGTO-	Seminar in	Geometry a	nd Top	d Topology							
in-152-m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		S (2) Modu	S (2) Module taught in: English							
	Method of	assessment	Lang	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=SGP-	Giovanni P	rodi Seminaı	(Mast	(Master)							
Cin-152-m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		S (2) Modu								
	Method of	assessment	Lang	alk (60 to 120 minutes) anguage of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester							
10-M=SID-	Interdiscip	terdisciplinary Seminar									
Cin-152-m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		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=SMS-	Seminar Mathematics in the Sciences										
Cin-152-m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		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=SN-	Seminar in	Numerical N	lathen	thematics and Applied Analysis							
MAin-152-mo1	ECTS 5 Duratio			1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			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=SOP-	Semina	ar in Op	timizatio	n							
Tin-152-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		S (2)							
					Module taught in: English						
	Metho	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=S-	Semina	ar in Sta	tistics								
STAin-152-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			S (2) Modu	Ile taught in: English	1		·	·		
	Metho	d of ass	essment	Langi	alk (60 to 120 minutes) anguage of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester						
10-M=SN-	Seminar in Non-linear Analysis										
LAin-152-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			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=SA-	Seminar in Applied Mathematics										
MAin-211-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		S (2) Module taught in: English							
	Metho	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=GLI-	Resear	rch in Gi	oups - Lie	e Theo	Theory						
Ein-211-m01	ECTS	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=GAD-	Resear	Research in Groups - Applied Differential Geometry												
Gin-211-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	25			V (2) + S (2) Module taught in: English									
	Metho	d of ass	essment	Lang	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=GMA-	Resear	rch in G	roups - Ma	athem	hematical Physics									
Pin-211-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	es			V (2) + S (2) Module taught in: English									
	Metho	d of ass	essment	Lang	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	rch in G	roups - Hi	gher S	tructures									
STin-222-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses			V (2) + S (2) Module taught in: English										
	Metho	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=GFA-	Research in Groups - Functional Analysis													
Nin-222-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses			V (2) + S (2) Module taught in: English										
	Metho	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	rch in G	roups - In	verse l	verse Problems									
Pin-222-m01	ECTS	ECTS 10 Duratio		n	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	es			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=GM-	Resear	rch in G	roups - Ma	athem	atical Logic			,				
L0in-252-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level				
	Course	S	_		V (2) + S (2) Module taught in: English							
	Metho	d of ass	essment	Lang	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=SM-	Seminar Mathematical Logic											
L0in-252-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level				
	Course	!S		S (2) Modi	ule taught in: Englisi	h						
	Metho	d of ass	essment	Lang	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=SIN-	Semina	ar in Inv	erse Prob	olems	ems							
Pin-252-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level				
	Courses			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=GMA-	Research in Groups - Mathematics of Machine Learning											
Lin-252-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level				
	Courses			V (2) + S (2) Module taught in: English								
	Metho	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=SMA-	Semina	ar in Ma	thematic	s of M	achine Learning							
Lin-252-m01	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level				
	Courses				S (2) Module taught in: English							
	Metho	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								

Thesis (30 ECTS credits)											
10-M=MA-	Master	Master Thesis Mathematics International									
MI-152-m01	ECTS 30 Duration		n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			No courses assigned to module							
	Methoo	d of asse	essment	Regist	Master's thesis (750 to 900 hours total) Registration and assignment of topic in consultation with supervisor. Language of assessment: English						
Additional Information Time to complete: 6 months											