

Studiengangkurzbeschreibung (gemäß APO §6 Abs. 3 Nr. 1a)	
Studiengang (Langbezeichnung): ¹⁾	Mathematik
Studiengang (Kurzbezeichnung): ²⁾	MMA
Abschlussgrad:	Master of Science (M.Sc.)
Sprache:	de
Erstellt von (Nachname, Fakultät):	Prof. Dr. W. Lauf, IM
SPO vom (tt.mm.jjjj):	21.12.2023
Erstelldatum (tt.mm.jjjj):	19.03.2026
Gültigkeitszeitraum (Semester):	SoSe 26

HIS-Modulnr.	Modulnr. laut SPO	Modulkurzbezeichnung	(Teil-) Modulbezeichnung Deutsch (lang)	(Teil-) Modulbezeichnung Englisch (lang)	Modultyp ³⁾	Schwerpunkt	Studiensemester ⁴⁾
6510010	1	ALG	Algebra	Algebra	PM	---	1 o. 2
6510020	2	FAN	Funktionalanalysis	Functional Analysis	PM	---	1 o. 2
6510030	3	NOP	Nichtlineare Optimierung	Nonlinear Optimization	PM	---	1 o. 2
6510040	4	STM	Statistische Methoden	Statistical Methods	PM	---	1 o. 2
6510050	5	PRM	Projektmanagement	Project Management	PM	---	2 o. 2
6510060	6	COD	Codierungstheorie	Coding Theory	WPM	---	1 o. 2
6510070	6	PKK	Public-Key-Kryptographie	Public Key Cryptography	WPM	---	1 o. 2
6510480	6	AAG	Angewandte Algebraische Geometrie	Applied Algebraic Geometry	WPM	---	1 o. 2
6510080	6	GFT	Geometrische Funktionentheorie	Geometric Function Theory	WPM	---	1 o. 2
6510090	6	PDG	Partielle Differentialgleichungen	Partial Differential Equations	WPM	---	1 o. 2
6510500	6	STL	Statistical Learning	Statistical Learning	WPM	---	1 o. 2
6510100	6	STP	Stochastische Prozesse	Stochastic Processes	WPM	---	1 o. 2
6510110	6	ZRA	Zeitreihenanalyse	Time Series Analysis	WPM	---	1 o. 2
6510510	6	NPD	Numerik Partieller Differentialgleichungen	Numerical Methods for Partial Differential Equations	WPM	---	1 o. 2
6510410	6	NUO	Numerische Optimierung	Numerical Optimization	WPM	---	1 o. 2
6510600	6	COA		Computational Optimization and Applications	WPM	---	1 o. 2
6510540	6	MOV	Modeling and Verification	Modeling and Verification	WPM	---	1 o. 2
6510120	7	BAN	Bildanalyse	Image Analysis	WPM	---	1 o. 2
6510610	7	CVI		Computer Vision	WPM	---	1 o. 2
6510160	7	FIM	Finanzmathematik	Financial Mathematics	WPM	---	1 o. 2
6510170	7	ITS	IT-Sicherheit	IT-Security	WPM	---	1 o. 2
6510180	7	MOD	Modellierung	Modelling	WPM	---	1 o. 2
6510190	7	RTH	Risikotheorie	Risk Theory	WPM	---	1 o. 2
6510200	7	SIM	Simulation	Simulation	WPM	---	1 o. 2
6510210	7	SPH	Simulationsmethoden in der Physik	Simulation Methods in Physics	WPM	---	1 o. 2
6510220	7	FKS	Fortgeschrittene Kommunikationssysteme	Advanced Systems of Communication	WPM	---	1 o. 2
6510230	7	QTH	Einführung in die Quantentheorie	Introduction to Quantum Theory	WPM	---	1 o. 2
6510440	7	QTH2	Quantentheorie 2	Quantum Theory 2	WPM	---	1 o. 2
6510240	7	PRV	Preisgestaltung von Rückversicherungsverträgen	Reinsurance Pricing	WPM	---	1 o. 2
6510250	7	FRO	Fortgeschrittene Robotik	Advanced Robotics	WPM	---	1 o. 2
6510420	7	STH	Systemtheorie	Systems Theory	WPM	---	1 o. 2
6510430	7	ITA	Integraltransformationen und Anwendungen	Integral Transforms and Applications	WPM	---	1 o. 2
6510450	7	NFI	Numerische Methoden der Finanzmathematik	Computational Finance	WPM	---	1 o. 2
6510460	7	IPB	Inverse Probleme und Bildgebung	Inverse Problems and Imaging	WPM	---	1 o. 2
6510470	7	SAL	Spezielle Algorithmen	Special Algorithms	WPM	---	1 o. 2
6510490	7	SIN	Signale und Nachrichtenübertragung	Signals and Telecommunication	WPM	---	1 o. 2
6510520	7	MMQ	Mathematische Methoden der Quantenphysik	Mathematical Methods in Quantum Physics	WPM	---	1 o. 2
6510530	7	WNLP	Weiterführende Themen in NLP	Advanced Topics in NLP	WPM	---	1 o. 2
6510550	7	NNE	Neural Networks - Theory and Applications	Neural Networks - Theory and Applications	WPM	---	1 o. 2
6510590	7	GAN	Generative Adversarial Networks	Generative Adversarial Networks	WPM	---	1 o. 2
6510560	7	SLA	Statistical Learning in Actuarial Science	Statistical Learning in Actuarial Science	WPM	---	1 o. 2
6510570	7	SPG	Secure Programming	Secure Programming	WPM	---	1 o. 2
6510580	7	MDK	Moderne Datenbankkonzepte	Modern Database Concepts	WPM	---	1 o. 2
6510300	8	HSE	Hauptseminar	Advanced Seminar	PM	---	1 o. 2 o. 3
5555365	9.2	MAS	Mündliche Präsentation	Master Thesis: Presentation	TPM	---	3

HIS-Modulnr.	Modulnr. laut SPO	Modulkurzbezeichnung	Prüfungsart ⁽⁴⁾	Prüfungsdauer in Min. ⁽⁷⁾	Ausgestaltung und Erläuterungen ⁽⁵⁾	Erstprüfer /in ⁽⁶⁾	Zweitprüfer /in ⁽¹⁰⁾	Besondere Zulassungsvoraussetzungen	Zugelassene Hilfsmittel	Unterrichts- und Prüfungssprache ⁽¹¹⁾	Regelungen zu Bonusleistungen ⁽¹²⁾	Besonderer Prüfungstermin	Zentrale Prüfungsplanung (im Prüfungszeitraum ⁽¹³⁾ I/J/N	Angebot im Ergänzungsprüfungszeitraum ⁽¹⁴⁾ I/J/N	LV findet statt I/N	Import aus ⁽⁹⁾	Export nach ⁽⁹⁾	Bemerkungen
6510010	1	ALG	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6510020	2	FAN	schrP	90	---	Stl	Law	---	a, sF, Tr	de	---	20.05.2026, 10.15 - 11:45	VW	N	N	---	---	---
6510030	3	NOP	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6510040	4	STM	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6510050	5	PRM	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6510060	6	COD	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6510070	6	PKK	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6510480	6	AAG	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6510080	6	GFT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6510090	6	PDG	schrP	90	---	Kev	Wej	---	k	de und en	---	---	J	N	N	---	---	---
6510500	6	STL	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6510100	6	STP	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6510110	6	ZGA	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6510510	6	NPD	schrP	90	---	Wej	Kev	---	sF (handgeschrieben, 2 DIN A4 Seiten), Tr	en	---	---	J	N	J	---	---	---
6510410	6	NUO	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6510600	6	COA	StA m.P.	---	---	Lra	Krk	---	en	---	---	10.07.2026	N	N	N	---	---	---
6510540	6	MOV	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6510120	7	BAW	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6510610	7	CVL	PF	---	Kol 15, StA	Rif	Frk	---	en	---	---	StA: 30.06.26	N	N	N	---	---	---
6510160	7	FIM	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6510170	7	ITS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6510180	7	MOD	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6510190	7	RTH	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6510200	7	SMI	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6510210	7	SPH	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6510220	7	FKS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6510230	7	OTH	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6510440	7	OTH2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6510240	7	PRV	schrP	90	---	Frm	Sca	---	a, sF, Tr	de	---	16.04.2026	VW	N	N	---	---	---
6510250	7	FRO	StA m.P.	---	---	Wma	Mea	---	en	---	---	17.07.2026	N	N	J	---	---	---
6510420	7	STH	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6510430	7	ITA	mdIP	30	---	Frk	Law	---	de und en	---	---	08.05.2026	VW	N	N	---	---	---
6510450	7	NFI	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6510460	7	IPB	PF	---	Kol 20, StA	Frk	Law	---	de und en	---	---	KW 26	N	N	J	---	---	---
6510470	7	SAL	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6510490	7	SIN	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6510520	7	MMQ	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6510530	7	WINLP	schrP	90	---	But	Jab	---	k	en	---	---	J	N	J	MIN: WINLP	---	---
6510550	7	NNE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6510590	7	GAN	StA m.P.	---	---	Vos	Jab	---	en	---	---	KW 28	N	N	J	---	---	---
6510560	7	SLA	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6510570	7	SPG	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6510580	7	MDK	schrP	90	---	Hef	Sjo	---	beidseitig handbeschriebenes DIN A4-Blatt	en	---	---	J	N	J	MIN: MDK	---	---
6510300	8	HSE	Pra	45	---	Frm	---	TN (75%)	---	de und en	---	---	N	N	J	---	---	---
5555365	9.2	MAS	Pra	15 - 45	---	hauptamtli., nicht pensionierte Professorinnen / Professoren - Fakultät IM mit Lehre in MMA, Ausnahmen auf Antrag	---	schriftl. Ausarbeitung mind. ausreichend	---	de und en	---	---	N	N	J	---	---	Anmeldung über Sharepoint

Legende:	
xxx	= importiertes Modul
xxx	= vorgezogene Wiederholungsprüfung (VW), fristgerechte Anmeldung direkt bei Erstprüferinnen bzw. Erstprüfern erforderlich
a	= alle Folgenden:
sk	= Skriptum
AO	= Arbeits- und Übungsblätter
pf	= publizierte Formelsammlung
k	= keine
Kol	= Kolloquium
Ksk	= Kurzschrift (Def. u. Sätze)
L	= Literatur
mdIP	= mündliche Prüfung
m.E.	= mit Erfolg (unbenotet)
N	= Notebook
PF	= Portfolioprüfung
Pra	= Präsentation (inkl. schriftl. Ausarbeitung bei SEM)
prLN	= praktischer Leistungsnachweis
schrB	= schriftlicher Bericht
schrP	= schriftliche Prüfung
sF	= selbstverfasste Formelsammlung
StA (m.P.)	= Studienarbeit (mit Präsentation)
THE	= Fach-Termin Exam
TN (x%)	= Teilnahmeerfolg (x% der durchgeführten Veranstaltungen)
Tr	= Taschenrechner (nicht programmierbar)