

Stand:  
13.05.2024

**Masterstudium und vertiefte Module WS24/25**

ECTS	Modul-Nr.	Veranstaltung	Dozent*in	Prüfungs-Nr.
10	65963	Fortgeschrittene Risikoanalyse 1	Stummer	
5	65970	Stochastische Analysis	Krüger	
?	not yet	Algebraische Topologie	Meusburger	
10	65927, 65335	Funktionalanalysis II (4+2)	Lechner	
10	65981, 65975, 65934	Lie-Algebren (4+2)	Fiebig	

ECTS	Modul-Nr.	Pflicht-Vorlesungen in englischer Sprache	Dozent*in	Prüfungs-Nr.
5	65917	Discrete Optimization I	Dozent WiMa	
5		Selected Topics in Mathematics of Learning	HTA	
5	65785	Mathematics of Learning	Liers	
5	65860	Modeling and Analysis in Continuum Mechanics 1	Bresciani*	

\* noch Metzger auf Campo

ECTS	Modul-Nr.	Optionale Vorlesungen in englischer Sprache	Dozent*in	Prüfungs-Nr.
5	65923	Optimization in Industry and Economy	HTA?	
10	65900	Advanced Discretization Techniques	Gräser	
5		Advanced Algorithms for Nonlinear Optimization		
10		Advanced Nonlinear Optimization	Stingl	
5	65903	Transport and Reaction in Porous Media: Simulation	Kräutle	
5		Numerics of Incompressible Flows 2		
5		Mathematics of Multiscale Models		
5		Numerics of Stochastic Evolution Equations		
5		Asymptotic Analysis and Modeling		
5		Numerics for Multi-Physics Problems (PDAEs)		
5		Mathematical Modeling in the Life Sciences		
5		Mathematics of Wetting Phenomena		
5		Partial Differential Equations in Finance		
5		Optimization with Partial Differential Equations		
5		Mathematical Data Science		
5		Mathematics of Learning		
5	65910	Discrete Optimization III	WiMa*	
5	65876	Data-driven methods for dynamical systems	Fantuzzi	58761 (m)
5	65877	Polynomial optimization and applications	Fantuzzi	58771 (m)
	930178	noch nicht bekannt	N.N.	

\* Oertel für Diskrete Optimierung III auf Campo eingetragen

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**Masterstudium und vertiefte Module SS 25**

ECTS	Modul.Nr.	Veranstaltung	Dozent*in	Prüfungs-Nr.
10		Discrete Optimization 2	Dozent WiMa	
10		Robuste Optimierung 2	Dozent WiMa	
10		Fortgeschrittene Risikoanalyse 2	Stummer	
10		Lie-Gruppen (als Wahlfach Bachelor geeignet)		
5		Mathematische Statistik	Richard	
10		Kryptographie II	Ruppert	
10		Steuerung partieller Differentialgleichungen (SPDgl) (4+1)		
10		Algebraische Quantenfeldtheorie / Local Quantum Physics (4+2)	Lechner	

ECTS	Modul.Nr.	Pflicht-Vorlesungen in englischer Sprache	Dozent*in	Prüfungs-Nr.
5		Modeling and Analysis in Continuum Mechanics 2		

ECTS	Modul.Nr.	Optionale Vorlesungen in englischer Sprache	Dozent*in	Prüfungs-Nr.
5		Modeling, Simulation and Optimization (practical course)		
5		Advanced Solution Techniques		
5		Transport and Reaction in Porous Media: Modeling		
5		Numerics of Incompressible Flows 1		
5		Theory of Stochastic Evolution Equations		
5		Mathematical Image Processing (PDE based Image Processing)	Tenbrinck	
10		Introduction to Material and Shape Optimization		
5		Numerical Aspects of Linear and Integer Programming		
?	65079	Introduction to Operator Algebras	Kang Li	50791 (M)

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**Masterstudium und vertiefte Module WS25/26**

ECTS	Modul-Nr.	Veranstaltung	Dozent*in	Prüfungs-Nr.

ECTS	Modul-Nr.	Pflicht-Vorlesungen in englischer Sprache	Dozent*in	Prüfungs-Nr.

ECTS	Modul-Nr.	Optionale Vorlesungen in englischer Sprache	Dozent*in	Prüfungs-Nr.
5		Optimization in Industry and Economy	HTA?	
10		Advanced Discretization Techniques		
5		Advanced Algorithms for Nonlinear Optimization		
10		Advanced Nonlinear Optimization		
5		Transport and Reaction in Porous Media: Simulation		
5		Numerics of Incompressible Flows 2		
5		Mathematics of Multiscale Models		
5		Numerics of Stochastic Evolution Equations		
5		Asymptotic Analysis and Modeling		
5		Numerics for Multi-Physics Problems (PDAEs)		
5		Mathematical Modeling in the Life Sciences		
5		Mathematics of Wetting Phenomena		
5		Partial Differential Equations in Finance		
5		Optimization with Partial Differential Equations		
5		Mathematical Data Science		
5		Mathematics of Learning		
		Discrete Optimization III	Liers?	