MasterMath courses per specialisation, version 12-07-2017

Key:

AS Applied Stochastics

 $\mathbf{A}\&\mathbf{T}$ Algebra and Topology

 $\mathbf{MFoCS}\,$ Mathematical Foundations of Computing Science

 ${\bf MPhys}\,$ Mathematical Physics

(n) Course taught in Nijmegen

Semester 1

Course Name	EC	\mathbf{AS}	A&T	MFoCS	MPhys
Advanced Algebraic Geometry: Algebraic Surfaces	8		Х		Х
Advanced Combinatorics	8	Х			Х
Advanced Hamiltonian Dynamics	8				Х
Algebraic Number Theory	8				
Asymptotic Statistics	8	Х			
Complexity Theory (n)	8			X	
Continuous Optimization	6	Х			
Cryptology	6		Х	X	
Discrete Choice Analysis: Theory and Application	8				
Discrete Optimization	6				
Dynamical Systems	8				Х
Forensic probability and Statistics	8	Х			
Functional Analysis	8				Х
Heuristic Methods in Operations Research	6	Х			
Intensive Course Categories and Modules	0				
Intensive reminder on Manifolds	0				
M1: Algebraic Geometry 1	8		Х		
M1: Algebraic Topology	8		Х		
M1: Commutative Algebra	8		Х		
M1: Differential Geometry	8		Х		Х
M2: Poisson Geometry	8		Х		Х
Machine Learning Theory	8	Х		X	
Mathematical Biology	8				
Measure-theoretic Probability	8	Х			
Numerical Linear Algebra	8				
Parallel Algorithms	8			Х	
Partial Differential Equations	8				Х
Probabilistic and Extremal Combinatorics	8	Х	Х		
Set Theory	8		Х	Х	
Systems and Control	6	Х			

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Semester 2

Course Name	EC	\mathbf{AS}	A&T	MFoCS	MPhys
Advanced Linear Programming	6	Х	X	X	
Algebraic Methods in Combinatorics	8	Х			
Algorithmic Geometry of Numbers	8			X	
Algorithms Beyond the Worst Case	8			X	
Applied Finite Elements	6	Х	X		
Applied Statistics	6	Х			
Asymptotic Statistics	8	Х			
Category Theory and Topos Theory and Modules	8		X	Х	
Continuum Mechanics	8				Х
Descriptive Set Theory (n)	8			X	
Dynamics of Networks	6				
Elliptic Curves	8		X		Х
Intro to Numerical Bifurcation Analysis of ODEs and Maps	8				
Inverse Problems in Imaging and Modules	6	Х			
M1: Lie Groups and Lie Algebras	8		X		Х
M1: Operator Algebras	8		Х		Х
M1: Riemann Surfaces (n)	8		Х		Х
M2: Algebraic Geometry 2	8		Х		Х
M2: Algebraic Topology 2	8		X		
M2: Foundations of General Relativity (n)	8				Х
Modular Forms	8		X		Х
Nonlinear Waves	8				
Percolation: from Intro to Frontiers of Current Research	8	Х			
Quantum Computing	8		X		
Queueing Theory	6	Х			
Scheduling	6	Х			
Selected Areas in Cryptology	8		X	Х	
Semidefinite Optimization	8				
Statistical Theory for High- and Infinite- Dim. Models	8	Х			
Stochastic Differential Equations	6	Х			
Stochastic Processes	8	Х			
Time Series	8	Х	1		
Topology in Physics	8				Х