

Mastermath courses



| proposed courses 2012-2013 | | 2011-2012 | 2010-2011 | 2009-2010 |
|-------------------------------|---|---|---|--|
| Diamant | Algebraic Number Theory | Elliptic Curves | Algebraic Number Theory | Elliptic Curves |
| | Cryptology | Automatic Sequences | Representation Theory | Algebraic Geometry for Cryptology |
| | | Algebraic Geometry | Complexity Theory | Invariant Theory with Applications |
| | | Semidefinite Optimization | Diophantine Equations | Topics in Number Theory: p-adic numbers and zeta functions |
| NDNS+ | Functional Analysis | Functional Analysis | Functional Analysis | Functional Analysis |
| | Dynamical Systems | Dynamical Systems | Conservative Dynamical Systems | Dynamical Systems generated by ODE and Maps |
| | Partial Differential Equations | Partial Differential Equations | Partial Differential Equations | Partial Differential Equations |
| | Fourier Analysis | Variational Methods | Asymptotic methods for differential equations | Fourier Analysis and Distribution Theory |
| | ?? | Mathematical Biology | Introduction to Numerical Bifurcation Analysis of ODEs and Maps | Mathematical Biology |
| STAR | Measure Theoretic Probability | Measure Theoretic Probability | Measure Theoretic Probability | Measure Theoretic Probability |
| | Asymptotic Statistics | Asymptotic Statistics | Asymptotic Statistics | Asymptotic Statistics |
| | Stochastic Processes | Stochastic Processes | Stochastic Processes | Stochastic Processes |
| | Time Series | Time Series | Empirical Processes and Statistical Learning | Time Series |
| GQT | Algebraic Topology | Operator Algebras | Algebraic Topology | Analysis on Manifolds |
| | Symplectic Geometry | Differential Geometry | Symplectic Geometry | C*-Algebras |
| | Semisimple Lie Algebras | Lie Groups | Semisimple Lie Algebras | Riemann Surfaces |
| | Algebraic Geometry | Riemann Surfaces | Algebraic Geometry | Algebraic Geometry |
| Logica | Computability Theory | Intuitionistic Mathematics | Proof Theory | Goedel's Incompleteness Theorem |
| | Mathematical Structures for Logic | Lambda Calculus as formalism for computations and proofs | Set Theory | Model Theory with Non-standard Analysis |
| Numerieke Wiskunde | Parallel Algorithms | Parallel Algorithms | Parallel Algorithms | Parallel Algorithms |
| | Numerical Linear Algebra | Numerical Linear Algebra | Numerical Linear Algebra | Numerical Linear Algebra |
| | Numerical Methods for Time-dependent PDEs | Numerical Methods for stationary PDEs | Numerical Methods for Time-dependent PDEs | Numerical Methods for stationary PDEs |
| LNMB+TU+Disc | Introduction to Stochastic Processes | Introduction to Stochastic Processes | Introduction to Stochastic Processes | Introduction to Stochastic Processes |
| | Continuous Optimization | Continuous Optimization | Continuous Optimization | Continuous Optimization |
| | Discrete Optimization | Discrete Optimization | Discrete Optimization | Discrete Optimization |
| | Heuristic Methods in Operations Research | Heuristic Methods in Operations Research | Heuristic Methods in Operations Research | Heuristic Methods in Operations Research |
| | Systems and Control | Systems and Control | Systems and Control | Systems and Control |
| | Advanced Modelling in Science | Advanced Modelling in Science | Advanced Modelling in Science | Advanced Modelling in Science |
| | Queueing Theory | Queueing Theory | Queueing Theory | Queueing Theory |
| | Applied Statistics | Applied Statistics | Applied Statistics | Applied Statistics |
| | Applied Finite Elements | Applied Finite Elements | Applied Finite Elements | Applied Finite Elements |
| | Scheduling | Scheduling | Scheduling | Scheduling |
| | Stochastic Differential Equations | Stochastic Differential Equations | Stochastic Differential Equations | Stochastic Differential Equations |
| | Nonlinear Systems Theory | Nonlinear Systems Theory | Nonlinear Systems Theory | Nonlinear Systems Theory |
| | Advanced Linear Programming | Advanced Linear Programming | Advanced Linear Programming | Advanced Linear Programming |
| Ieraren | tba | tba | Number Theory and Cryptography | Number Theory and Cryptography |
| | | Probability and Stochastics | Didaktiek | Stochastics |
| | | tba | Geometry | Geometry |
| | | Historical Aspects of Classroom Mathematics | Historical Aspects of Classroom Mathematics | Historical Aspects of Classroom Mathematics |