COURSES FOR GRADUATE STUDENTS

The following courses can be taught in English, but the medium of instruction will be finalized by the instructor according to the status of the class.

MATHEMATICS GROUP

Algebra
Algebraic graph theory
Combinatorics
Graph theory
Graph theory and interconnection networks
Python and machine learning algorithms
Special topics in Combinatorics
Special topics in Graphs

Applied analysis
Complex analysis
Differential geometry
Fourier analysis
Functional analysis
Geometric analysis
Measure theory
Ordinary differential equations
Operation research
Operator theory
Real analysis
Partial differential equations
Seminar in Mathematics (I), (II)

SCIENTIFIC COMPUTING GROUP

Finite element analysis
Finite difference analysis
Matrix computations
Matrix theory

Meshless methods
Numerical methods for ODE
Numerical methods for PDE
Numerical polynomials algebra
Parallel computing
Symbolic computations
Seminar in parallel processing
Sparse matrices
Seminar in Scientific Computing (I), (II)

STATISTICS GROUP

Discrete data analysis
Financial time series analysis
Multivariate analysis
Regression analysis
Survival analysis
Statistical learning and data mining
Seminar in Statistics (I), (II)

DATA SCIENCE GROUP

Data science capstone project
Data visualization
Discrete data analysis
Financial time series analysis
Foundations of manifold learning
Graph theory and interconnection networks
Matrix computations
Multivariate analysis
Parallel computing
Regression analysis
Sparse matrices
Survival analysis
Statistical learning and data mining
Seminar in data science (I), (II)