

COURSE REQUIREMENTS FOR A GENERAL QUALIFICATION

Degree of Master of Science 120 credits

Major: Mathematics

With specialization in Numerical Analysis

Programme:

Master Programme in Mathematics 120 credits

COMPULSORY COURSES 15 credits

NUMN12 Numerical Methods for Differential Equations, 7.5 credits

NUMN17 Seminar, 7.5 credits

ELECTIVE COURSES 45 credits

MATM12 Analytic Functions, 15 credits

MATM27 Ordinary Differential Equations 2, 7.5 credits

MATM18 Fourier Analysis, 7.5 credits

MATP15 Linear Functional Analysis, 7.5 credits

MATP16 Partial Differential Equations, 7.5 credits

MATP25 Specialised Course in Linear Functional Analysis, 7.5 credits

NUMN05 Simulation Tools, 7.5 credits

NUMN14 Finite Volume Methods, 7.5 credits

NUMN15 Numerical Methods for Computer Graphics, 7.5 credits

NUMN18 Numerical Analysis for Elliptic and Parabolic Differential Equations, 7.5 credits

NUMN19 Numerical Approximation, 7.5 credits

NUMN25 Advanced Course in Numerical Algorithms with Python/SciPy, 7.5 credits

NUMN30 Iterative Solution of Large Scale Systems in Scientific Computing, 7.5 credits

OPTIONAL COURSES 45 credits

A maximum of 30 credits of these may be first-cycle courses. Courses in Numerical Analysis, Mathematical Statistics, and Mathematics are recommended.

DEGREE PROJECT 30 credits

NUMN11 Master's Degree Project, 30 credits
