

MSc in Mathematics by Coursework (Track 1, 40-UNIT)

**Revised Graduation Requirements for MSc Mathematics (Track 1) students
admitted in AY2022/23 intake**

1. To read and pass:

- **Five basic elective courses (20 Units) selected from the following:**

- MA4203 Galois Theory
- MA4229 Fourier Analysis and Approximation Theory
- MA4260 Stochastic Operation Research
- MA4268 Mathematics for Visual Data Processing
- MA4270 Data Modelling and Computation
- MA4273 Algebraic Geometry of Curves and Surfaces
- MA5203 Graduate Algebra I
- MA5205 Graduate Analysis I
- MA5210 Differentiable Manifolds
- MA5213 Advanced Partial Differential Equations
- MA5232 Modeling and Numerical Simulations
- MA5233 Computational Mathematics
- MA5243 Advanced Mathematical Programming
- MA5245 Advanced Financial Mathematics
- MA5248 Stochastic Analysis in Mathematical Finance
- MA5259 Introductory Probability
- MA5266 Optimization
- MA5270 Game Theory and applications
- MA5271 Introduction to Computational Mathematics

At most two MA4xxx courses can be selected throughout the entire candidature

- Five general elective courses (20 Units) selected from any MA52xx, MA53xx, and (MA5401 or MA5402), QF5xxx (except for all the MQF core courses and capped at three such courses), DSA5xxx (except for all the MDSML core courses and capped at three such courses) or any level 5000 courses offered by other departments/faculties (up to 8Units), subject to department's approval.

2. **Obtain a minimum Grade Point Average (GPA) of 3.00 or an average grade of at least B-.**

- Students who wish to read level 5000 or above courses offered by other departments/faculties to fulfil their graduation requirement are to refer to the 'Course Substitution' section of our Department's webpage for the procedure.
- As the MA5401 (4 units) and MA5402 (8 Units) internship courses are graded on a CS/CU basis, students who are already enrolled in the 8-unit dissertation course MA5295 will no longer be permitted to take the MA5402 (8-unit) internship course.

Continuation Requirement

A student will be issued a warning for any semester in which his/her GPA falls below 3.00.

If in the following semester, the student's GPA again falls below 3.00 but is above 2.50, he/she will be placed on probation.

The candidature of a student may be terminated if he/she obtains the following:

1. A GPA of less than 2.50 for two consecutive semesters;
2. A GPA of less than 3.00 for three consecutive semesters.

GPA for continuation is computed based on all courses read (be it pass or fail).

Updated on 15 July 2024