

Master of Science (M.Sc.) in Mathematics – 2 Year Syllabus

Duration: 2 Years (4 Semesters)

Program Type: Postgraduate Degree

Total Credits: 96 (Typical University Pattern)

Note: Subject codes across universities. The following is a standard university-style curriculum.

Semester I

Subject Code	Subject Name	Credits
MTH101	Advanced Abstract Algebra	4
MTH102	Real Analysis	4
MTH103	Ordinary Differential Equations	4
MTH104	Linear Algebra	4
MTH105	Mathematical Methods	4
MTH106P	Computational Mathematics Lab	4

Semester II

Subject Code	Subject Name	Credits
MTH201	Complex Analysis	4
MTH202	Topology	4
MTH203	Partial Differential Equations	4
MTH204	Numerical Analysis	4
MTH205	Measure and Integration Theory	4
MTH206P	Mathematical Computing Lab	4

Semester III

Subject Code	Subject Name	Credits
MTH301	Functional Analysis	4

Subject Code	Subject Name	Credits
MTH302	Advanced Algebra	4
MTH303	Probability Theory	4
MTH304	Operations Research	4
MTH305	Optimization Techniques	4
MTH306	Research Methodology	4

Semester IV

Subject Code	Subject Name	Credits
MTH401	Differential Geometry	4
MTH402	Mathematical Statistics	4
MTH403	Graph Theory	4
MTH404	Discrete Mathematics	4
MTH405	Dissertation / Project Work	8
MTH406	Viva Voce	4