



Bangalore University

NAAC A++, UGC-Entitled

M.Sc Mathematics

Type

Pg Program

Mode

Online

Duration

2 Years

Total fees

₹ 82,600

Bangalore University

Bangalore University (BU) was established in July 1964 and is one of the oldest and largest state universities in Karnataka. Located in Bengaluru, the university operates under the jurisdiction of the Government of Karnataka and is recognised by the University Grants Commission (UGC). The university provides higher education in various fields including Arts, Science, Commerce, Management, Education, Law, Engineering, and interdisciplinary studies. It has multiple postgraduate departments, research centres, university colleges, and a wide network of affiliated colleges offering diverse academic programmes.

M.Sc Mathematics

Highlights

- ◆ Advanced postgraduate program focused on mathematical concepts and applications.
- ◆ Comprehensive understanding of theoretical and applied mathematics.
- ◆ Develops strong analytical thinking and problem-solving abilities.
- ◆ Helps students gain expertise in mathematical modelling and quantitative techniques.
- ◆ Builds skills required for research, academics, and industry applications.
- ◆ Enhances logical reasoning and computational abilities.

Learning outcomes

- ◆ Understand advanced mathematical theories and concepts.
- ◆ Apply mathematical techniques to solve complex problems.
- ◆ Develop analytical and logical reasoning skills.
- ◆ Use mathematical tools for research and practical applications.
- ◆ Interpret quantitative data and mathematical models.

Eligibility Criteria

Graduates with a Bachelor's degree in Science (B.Sc.) from Bangalore University or any other recognized equivalent University, who have secured at least 40% aggregate marks in all optional (major) subjects and 50% marks in Mathematics, are eligible.

Curriculum Overview

Semester I (6 subjects)

- ◆ Algebra- I
- ◆ Real Analysis
- ◆ Topology- I
- ◆ Ordinary Differential Equations
- ◆ Discrete Mathematics
- ◆ Mathematical Analysis

Semester II (6 subjects)

- ◆ Algebra- II
- ◆ Complex Analysis
- ◆ Topology-II
- ◆ Partial Differential Equations
- ◆ Numerical Analysis
- ◆ Elementary Number Theory

Semester III (7 subjects)

- ◆ Differential Geometry
- ◆ Fluid Mechanics
- ◆ Functional Analysis
- ◆ Linear Algebra
- ◆ Numerical Analysis - II
- ◆ Elements of Calculus
- ◆ Mathematic for Everyone



Curriculum Overview (continued)

Semester IV (12 subjects)

- ◆ Measure and Integration
- ◆ Mathematical Methods
- ◆ Riemannian Geometry
- ◆ Special Functions
- ◆ Theory of Numbers
- ◆ Entire and Meromorphic Functions
- ◆ Magneto hydrodynamics
- ◆ Fluid Dynamics of Ocean and Atmosphere
- ◆ Computational Fluid Dynamics
- ◆ Finite Element method with Applications
- ◆ Graph Theory
- ◆ Design and Analysis of Algorithms

Fee Structure

Fee heads	Year 1	Year 2	Total
Registration Fee	₹ 1,000	—	₹ 1,000
Processing Fee	₹ 1,000	—	₹ 1,000
Exam Fee	₹ 2,800	₹ 2,800	₹ 5,600
Program Fee	₹ 38,000	₹ 37,000	₹ 75,000
Total	₹ 42,800	₹ 39,800	₹ 82,600