



Bundelkhand University

NAAC A++, UGC-Entitled

M.Sc

Mathematics

Type

Pg Program

Mode

Distance

Duration

2 Years

Total fees

₹ 51,000

Bundelkhand University

Bundelkhand University is a State Government University located in Jhansi, Uttar Pradesh, established in 1975 to expand access to higher education across the Bundelkhand region. It offers programmes across disciplines including management, commerce, science, engineering, pharmacy, law, agriculture, education, humanities and other professional fields. It is recognised by the UGC and is included by NIRF in the State Public University category. Bundelkhand University has also established a Centre for Distance and Online Education (CDOE) to extend flexible higher education beyond the physical campus. The CDOE currently offers eight ODL programmes and positions the university's distance-learning initiative around accessible, affordable and flexible education.

M.Sc Mathematics

Highlights

- ◆ Offers options including Operations Research, Number Theory, Mathematical Statistics, Bio Mathematics and Differential Geometry.
- ◆ Develops logical reasoning, quantitative analysis and advanced problem-solving abilities.
- ◆ Covers algebra, analysis, differential equations, topology, mechanics and other advanced mathematical areas.
- ◆ Builds knowledge relevant to mathematical modelling, research methodology and further academic study.
- ◆ Allows learners to pursue postgraduate mathematics through Open Distance Learning with a structured semester-based curriculum.

Learning outcomes

- ◆ Ability to analyze complex problems systematically and draw valid conclusions using mathematical reasoning.
- ◆ Capability to understand, construct, and present rigorous mathematical proofs.
- ◆ Skill in translating real-world problems into mathematical models and interpreting the resulting solutions.
- ◆ Ability to work with abstract concepts, structures, patterns, and generalizations
- ◆ Preparation for careers in teaching, research, data analysis, statistics, banking, finance, actuarial work, scientific computing, and other quantitative fields.

Eligibility Criteria

Passed B.Sc. Mathematics from a recognized University with 45% marks in aggregate.

Curriculum Overview

Semester I (5 subjects)

- ◆ Code 60651: Advanced Abstract Algebra
- ◆ Code 60652: Real Analysis
- ◆ Code 60653: Differential Equations
- ◆ Code 60654: Integral Equations
- ◆ Minor Elective: Interdisciplinary Elective I

Semester II (4 subjects)

- ◆ Code 60656: Topology
- ◆ Code 60657: Complex Analysis
- ◆ Code 60658: Classical Mechanics
- ◆ Code 60659: Numerical Analysis

Semester III (4 subjects)

- ◆ Code 70651: Special Functions
- ◆ Code 70652: Fluid Dynamics
- ◆ Elective I (Table 1a): Operations Research / Number Theory
- ◆ Elective II (Table 1b): Discrete Mathematics / Mathematical Statistics



Curriculum Overview (continued)

Semester IV (4 subjects)

- ◆ Code 70661: Functional Analysis
- ◆ Code 70662: Measure Theory
- ◆ Elective III (Table 1c): Partial Differential Equations / Bio Mathematics
- ◆ Elective IV (Table 1d): Differential Geometry / Theory Of Fuzzy Sets

Fee Structure

Fee heads	Year 1	Year 2	Total
Registration Fee	₹ 1,000	—	₹ 1,000
Exam Fee	₹ 2,000	₹ 2,000	₹ 4,000
Program Fee	₹ 23,000	₹ 23,000	₹ 46,000
Total	₹ 26,000	₹ 25,000	₹ 51,000