



Deen Dayal Upadhyaya Gorakhpur
University

NAAC A++, UGC-Entitled, NIRF #151-200, IIRF #75

M.Sc Mathematics - WLP

Type

Pg Program

Mode

Work-Linked

Duration

2 Years

Total fees

₹ 40,500

Deen Dayal Upadhyaya Gorakhpur University

Deen Dayal Upadhyaya Gorakhpur University, founded in 1950, is the first university in Uttar Pradesh to emerge as a leading higher-studies centre after Independence. It has earned an A++ accreditation from NAAC for its relentless pursuit of its motto, “Let the noble thoughts come to us from all directions,” which reflects its openness to diverse perspectives, cultures, and values in its academic and organizational spheres. DDU Gorakhpur University offers Online Programs, ODL Programs, and Work-linked Programs to support diverse learners. The university bears the name of the eminent political philosopher, Pandit Deen Dayal Upadhyaya. It is situated in Gorakhpur, where it draws inspiration from the spiritual, philosophical, patriotic, and philanthropic heritage of Gautam Buddha, Sant Kabir, Guru Gorakshnath, Bismil, Hanuman Prasad Poddar, and the world-famous Gita Press.

Key features

- ◆ Industry-Integrated Curriculum
- ◆ NAAC A+ Accredited University
- ◆ Entrepreneurship & Innovation Cell
- ◆ Digital Learning Management System (LMS)
- ◆ Scholarship Opportunities for Meritorious Students
- ◆ Experienced Faculty from Academia & Industry

M.Sc Mathematics - WLP

Highlights

- ◆ Structured digital modules paired with practical company-linked touchpoints for applied learning.
- ◆ The course brings attention to algebra, calculus, linear algebra, and mathematical modelling, helping learners understand how mathematics, quantitative reasoning, and analytical problem-solving works beyond theory.
- ◆ Workplace-linked exposure supports communication, accountability, and confidence in professional environments.
- ◆ Assignments and guided learning help connect subject knowledge with abstract problems, quantitative patterns, and logical relationships.
- ◆ Creates a stronger foundation for domain-relevant opportunities in teaching, analytics, research, quantitative roles, and advanced academic pathways, including areas such as Data Analyst / Data Scientist, Quantitative Analyst, and Statistical Research Officer, without promising outcomes, with added focus on research orientation.

Learning outcomes

- ◆ Within M.Sc (Mathematics) - WLP from Deen Dayal Upadhyaya Gorakhpur University, interpret key ideas in mathematics, quantitative reasoning, and analytical problem-solving and relate them to abstract problems, quantitative patterns, and logical relationships.
- ◆ Solve structured problems involving mathematical modelling, proof-based reasoning, and structured analysis challenges through appropriate concepts and methods.
- ◆ Assess quantitative choices using logical reasoning, assumptions, and mathematical evidence with attention to precision, logical clarity, and disciplined reasoning.
- ◆ Communicate insights through solutions, proofs, models, and analytical explanations suited to the discipline.
- ◆ Practice professional communication, accountability, and applied problem-solving through work-linked learning contexts, while strengthening research orientation.

Eligibility Criteria

Course Eligibility: Mathematics as a subject in UG III Year or B.Tech./BCA

Internship Eligibility: Age limit: 23 years

*Earnings depend on role, industry, company policies, and internship availability.

Curriculum Overview

Semester I (5 subjects)

- ♦ MAT- 501N - Groups and Canonical Forms
- ♦ MAT- 502N - Topology
- ♦ MAT- 503N - Differential and Integral Equations
- ♦ MAT- 504N - Complex Analysis
- ♦ MAT- 505N - Real Analysis

Semester II (6 subjects)

- ♦ MAT- 506N - Fields and Modules
- ♦ MAT- 507N - Differential Geometry of Manifolds
- ♦ MAT- 508N - Partial Differential Equations
- ♦ MAT- 509N - Operations Research
- ♦ MAT- 510N - Fluid Dynamics
- ♦ MAT- 500N - Basic Statistical Tools for Mathematical Sciences



Curriculum Overview (continued)

Semester III (14 subjects)

- ♦ MAT- 511N - Number Theory
- ♦ MAT- 512N - Functional Analysis-I
- ♦ MAT- 513N - Mathematical Modelling
- ♦ MAT- 514N - Discrete Mathematics
- ♦ MAT- 515N - General Relativity and Gravitation
- ♦ MAT- 516N - Summability Theory and Approximation
- ♦ MAT- 517N - Hydro Dynamics
- ♦ MAT- 518N - Numerical Solution of Differential Equations
- ♦ MAT- 519N - Advanced Topology
- ♦ MAT- 520N - Mathematical Epidemiology
- ♦ MAT- 521N - Complex Manifolds
- ♦ MAT- 522N - Riemannian Geometry
- ♦ MAT- 523N - Hydro Statics
- ♦ MAT- 524N - Project



Curriculum Overview (continued)

Semester IV (14 subjects)

- ♦ MAT- 525N - Measure Theory
- ♦ MAT- 526N - Functional Analysis-II
- ♦ MAT- 527N - Classical Mechanics
- ♦ MAT- 528N - Fourier Analysis
- ♦ MAT- 529N - Cosmology
- ♦ MAT- 530N - Wavelet Analysis
- ♦ MAT- 531N - Magneto Hydrodynamics
- ♦ MAT- 532N - Fixed Point Theory and its Application
- ♦ MAT- 533N - Bio Mathematics
- ♦ MAT- 534N - Contact Manifolds
- ♦ MAT- 535N - Finsler Geometry
- ♦ MAT- 536N - Variational Analysis and Nonsmooth Optimization
- ♦ MAT- 537N - Mathematics for Humanities (Not for Mathematics Students)
- ♦ MAT- 538N - Dissertation/ Research project

Fee Structure

Fee heads	Year 1	Year 2	Total
Registration Fee	₹ 500	—	₹ 500
Course Fee	₹ 12,000	₹ 12,000	₹ 24,000
Exam Fee	₹ 3,000	₹ 3,000	₹ 6,000
Internship Fee	₹ 5,000	₹ 5,000	₹ 10,000
Total	₹ 20,500	₹ 20,000	₹ 40,500

Career & Placement highlights



95%

of graduates placed



3x

Average salary hike

Top Career Roles



Machine Learning Engineer



Data Scientist



Systems Architect



Technical Support
Specialist



Entrepreneur



Cybersecurity Analyst