



दीनदयाल उपाध्याय गोरखपुर विश्वविद्यालय

Deen Dayal Upadhyaya Gorakhpur University

(Accredited A++ by NAAC)

Centre for Distance and Online Education

MSC MATHEMATICS (DEGREE WITH INTERNSHIP)



ABOUT 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 organisational spheres.

WHY CHOOSE US?

75+
years of
legacy

12,000+
students
enrolled

130+
programs
offered

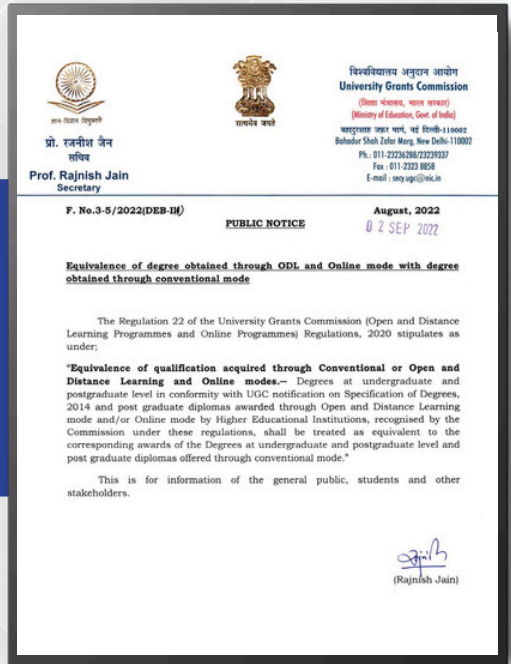
NAAC 'A++'
grade accredited
university

400+
Teaching
staff



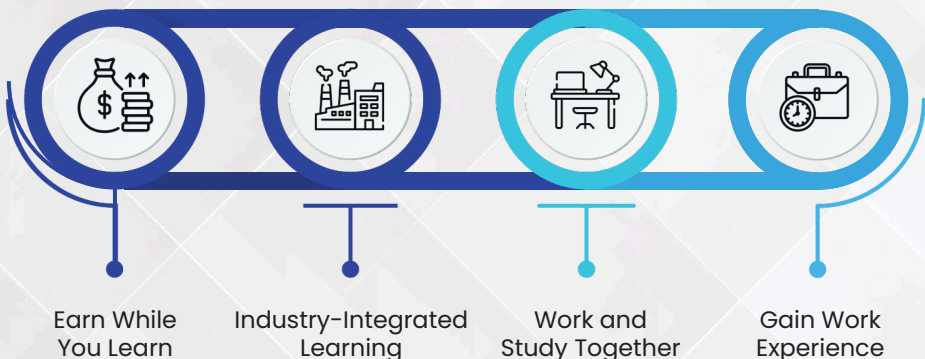
ONLINE DEGREE = REGULAR DEGREE

According to Regulation 22 of the UGC in 2020, online degrees are now considered just as valid and credible as traditional, offline degrees.



WHAT ARE DEGREE WITH INTERNSHIP PROGRAMS?

Degree With Internship Programs also known as 'Degree Apprenticeship Programs' recognized as per the National Education Policy (NEP), are degree programs created with aim to improve the employability of higher education students by focusing on outcome-based learning



MSC MATHEMATICS

Duration: 2 Years

MODE OF LEARNING: ONLINE+WORK-BASED LEARNING

Learning Commitment: 8-10 hours/week
(Recommended Hours)

COURSE ELIGIBILITY

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

INTERNSHIP ELIGIBILITY

Age limit: 23 years

COURSE DESCRIPTION

The M.Sc Mathematics Work-Linked Degree program combines rigorous academic learning with practical industry experience.

Students pursue their postgraduate studies online while interning with partner organizations, applying mathematical concepts in real-world scenarios such as data analytics, statistical modeling, financial modeling, and algorithm design.

SEMESTER WISE COURSE STRUCTURE

SEMESTER 1

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

SEMESTER 2

COURSE CODE	COURSE TITLE
MAT- 506N	Fields and Modules
MAT- 507N	Differential Geometry of Manifolds
MAT- 508N	Partial Differential Equations
MAT- 509N	Operations Research
MAT- 510N	Fluid Dynamics
Open Minor Elective Course/ Open Elective Course	
MAT- 500N	Basic Statistical Tools for Mathematical Sciences

SEMESTER 3

COURSE CODE	COURSE TITLE
MAT- 511N	Number Theory
MAT- 512N	Functional Analysis-I
MAT- 513N	Mathematical Modelling
Discipline Specific Elective (DSE)/Elective Courses (Any one course of the Group-A/Opt any one)	
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
Discipline Specific Elective (DSE)/Elective Courses (Any one course of the Group-B/Opt any one)	
MAT- 519N	Advanced Topology
MAT- 520N	Mathematical Epidemiology
MAT- 521N	Complex Manifolds
MAT- 522N	Riemannian Geometry
MAT- 523N	Hydro Statics
Project	
MAT- 524N	Project

SEMESTER 4

COURSE CODE	COURSE TITLE
MAT- 525N	Measure Theory
MAT- 526N	Functional Analysis-II
MAT- 527N	Classical Mechanics
Discipline Specific Elective (DSE)/Elective Courses (Any one course of the Group-A/Opt any one)	
MAT- 528N	Fourier Analysis
MAT- 529N	Cosmology
MAT- 530N	Wavelet Analysis
MAT- 531N	Magneto Hydrodynamics
MAT- 532N	Fixed Point Theory and its Application
Discipline Specific Elective (DSE)/Elective Courses (Any one course of the Group-B/Opt any one)	
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)
Dissertation/Research Project	
MAT- 538N	Dissertation/ Research project

FEE STRUCTURE

MSC Mathematics	1st Year Fees	2nd Year Fees
Registration Fee	Rs. 500/-	-
Course Fee	Rs. 12,000/-	Rs. 12,000/-
Exam Fee	Rs. 3,000/-	Rs. 3,000/-
Internship Fee	Rs. 5,000/-	Rs. 5,000/-
Total Yearly Fee	Rs. 20,500/-	Rs. 20,000/-
Total Fees	Rs. 40,500/-	

ADMISSION PROCESS





CAREER OPPORTUNITIES AFTER MSC MATHEMATICS

An MSC in Mathematics opens diverse career opportunities, including:



Data Analyst /
Data Scientist



Quantitative
Analyst



Statistical
Research Officer



Operations
Research
Analyst



Risk
Management
Executive



Software
Developer

WORK & LEARN NOW

**WITH
DEEN DAYAL
UPADHYAYA GORAKHPUR
UNIVERSITY**



For more information contact:



9240271117