

# Himanshoo Tiwari

PhD Scholar, Bennett University

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## Academic Profile

Experienced Assistant Professor with 8+ years of teaching and research expertise in Mathematics, Operations Research, and Statistics. Proven track record of publishing research in international conferences and journals. Expertise in integrating advanced mathematical concepts with practical applications in management and technology education.

## Education

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|-------------------|-----------------------------------------------------|----------|
| Ph.D. (Pursuing)  | Bennett University                                  | Jan-2025 |
| M.Sc. Mathematics | University of Lucknow<br><i>First Division, 62%</i> | 2019     |
| B.Sc. Mathematics | University of Mumbai<br><i>First Division, 68%</i>  | 2014     |
| 12th Standard     | U.P. Board<br><i>First Division, 69%</i>            | 2010     |
| 10th Standard     | U.P. Board<br><i>First Division, 75%</i>            | 2007     |

## Professional Experience

**Lecturer (Part-Time)** *Dec 2020 – Present*  
All India Mathematics, Delhi

- Conduct specialized mathematics training for competitive examinations
- Design curriculum and learning materials for diverse student groups

**Assistant Professor** *Mar 2022 – Feb 2025*  
Mangalmy Institute of Management & Technology, Greater Noida

- Delivered lectures in Mathematics, Numerical Techniques, Operations Research, and Statistics across multiple semesters
- Developed course content and assessment frameworks for undergraduate programs
- Contributed to NAAC accreditation and academic administration

**Lecturer** *Sep 2016 – Feb 2017*  
Allen Career Institute

- Taught mathematics to IIT exam aspirants

## Research & Publications

### Journal Publications

- “Approximate Analytical Solution of (1+1)-Dimensional Kaup System and Sawada-Kotera-Ito Seventh-order KdV Equation by RDTM” — *Optimization Techniques and Applications, Springer Nature Singapore, Editors: Millie Pant, Kusum Deep, Atulya K. Nagar, DOI: 10.1007/978-981-95-5044-9\_21 (May 2026)*

- **“Semi-analytical solutions of (2+1)-dimensional biological population model using Homotopy Analysis Method (HAM)”** — *Proceedings of International Conference DAYS on DIFFRACTION 2025, IEEE (pp. 200-205)*
- **“A Comprehensive Survey on Abnormal Crowd Behaviour”** — *ABDC Journal (Scopus Indexed)*
- **“Rural Entrepreneurship in India: Challenges and Problem”** — *National Conference Anvesha 2022*

## Book & Book Chapter

- **“Far-Field Analysis of Weak Shock Waves in Radiative Magnetogasdynamics”** — *Multi-Scale Shock Wave Mechanics, Routledge Taylor & Francis, London (2026)*
- **“Application of Statistical Tools in Management”** — Ojha Publication and Research House, ISBN: 9789349976498
- Chapter: **“An In-depth Look at the Research on Reducing Lead Times in Inventory Control”** — *Social Development and Governance, ISBN: 978-81-966500-9-4*

## Patents

- **Ecommerce Fraud Detector** — Design Application No. 6393048
- **A Novel Approach to Designing Routing Algorithms Using Graph Theory** — Application No. 202411009043

## Academic Conferences & Workshops

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- National Workshop on **MATLAB for Beginners**, SPNREC Araria (May 2024)
- International Conference on **Graph Theory and Additive Combinatorics**, IIIT Allahabad (May 2024)
- FDP on **Mathematics in Engineering and Science**, VIT-AP University (Jan 2024)
- Workshop on **Theory of NP-Completeness**, Sri Sivasubramaniya Nadar College of Engineering (Mar 2022)
- National Conference on **Entrepreneurship & Skill Development**, Mangalamy Institute (Nov 2022)
- FDP on **Data Analysis Using Excel**, IIT Kanpur (Apr 2022)
- National Workshop on **Vedic Mathematics**, University of Delhi (Aug 2022)
- **Vedic Maths Mastery Course (3-Month)**, University of Delhi, Ministry of Education (Jun-Sep 2022)

## NPTEL Certifications

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- **Advanced Partial Differential Equations** — Part II: Distributions and Sobolev Spaces, IISc Bangalore (May 2026)
- **Advanced Partial Differential Equations** — Part I: Distributions and Sobolev Spaces, IISc Bangalore (Sep 2025)
- **Basic Vector Calculus** — 12-Week Certification, IIT Madras (Apr 2024)
- **Research Methodology and Statistical Analysis** — Roll No: UP09000898

## Projects

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- **NPDE Project** — IIT Bombay Summer 2014 (3 Weeks)  
Non-Linear Partial Differential Equation analysis

## Technical Skills

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| <b>Software</b>          | MTALAB, MATHEMATICA, LaTeX                                         |
| <b>Operating Systems</b> | Windows                                                            |
| <b>Core Competencies</b> | Mathematics, Operations Research, Statistics, Numerical Techniques |
| <b>Additional</b>        | Content Writing, Educational Content Creation, Research Writing    |