

VISHAL KUMAR

ASSISTANT PROFESSOR, MATHEMATICS

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PROFILE

Educator and Researcher in Mathematics with research interests spanning Fuzzy Graph Theory, Ancient Indian Mathematics, Discrete Mathematics, Mathematical Modelling and Computational Mathematics. Experienced in undergraduate mathematics teaching, student mentoring, academic research, scholarly writing and conference presentations.

EDUCATION

Ph.D. in Mathematics — Gurukula Kangri (Deemed to be University), Haridwar | 2027 (expected)

M.Sc. in Mathematics — Gurukula Kangri Vishwavidyalaya, Haridwar | 2019 | CGPA 9.4/10

B.Sc. (PCM) — SMJN (PG) Degree College, Haridwar (Affiliated to H.N.B Garhwal University, Srinagar) | 2017

QUALIFICATION

- **CSIR NET/JRF** (Mathematical Sciences) — June 2022 | **AIR 54**
- Awarded **Pratibha Samman Student Achievement Award** by SMJN (PG) Degree College — Dec 2022

TEACHING EXPERIENCE

- **Assistant Professor, Mathematics** — Faculty of Science and Technology, The ICFAI University, Himachal Pradesh | Sep 2026 - Present
- **Teaching Instructor, B.Sc. Mathematics** — Department of Mathematics, Gurukula Kangri (Deemed to be University), Haridwar | Feb 2023 – Apr 2025 (5 Semesters During Ph.D., as Research Scholar)

SELECTED RESEARCH PUBLICATIONS

- **Geometrical Transformations from Baudhāyana Śulba Sūtra and Formation of Citis** — *Ganita*, 74(2), 387–402 (2024).
- **Uncertainty in Molecular Modeling: A Chemical Fuzzy Graph Approach** — *Scope Journal*, 15(04), 1960–1972 (2025). Scopus-indexed.
- **Fuzzy Intelligence for Circular Economy: A Systematic Review of Soft and Metaheuristic Models** — *De Gruyter*, pp. 61–75 (2026).
- **Study of Geometrical Constructions, Mathematics and the Accuracy of their Results in Baudhāyana Śulba Sūtra** — *Cambridge Scholars Publishing* (2026), accepted.
- **Echoes of Wisdom: The Scientific Legacy of Ancient India** — *Veda & Vigyan for Sustainability*, pp. 333 (2025).
- **Environmental Modeling: A Mathematical Approach for Environment Conservation** — *Vedic Ecology and Modern Sustainability: Integrated Approaches for Environmental Management*, Ch. 14 (2025).

ACADEMIC HIGHLIGHTS

Reviewer: Journal of Computer Science (Scopus) and Mathematics Education Research Journal (Springer Nature, ESCI)

Best Paper Award at the international conference, ICASF 2.0 (2026) for “The Sūtra of Intelligence: Lessons for AI from Vedic Texts”.

RESEARCH INTERESTS & TECHNICAL SKILLS

Research: Fuzzy Graph Theory & Applications | Ancient Indian Mathematics | Discrete Mathematics | Mathematical Modelling & Simulation | Computational Mathematics

Tools: MATLAB | LaTeX | Python (Basic) | MS Excel | PowerPoint | Word | Languages: Hindi (Native) | English (Professional Proficiency)

CONFERENCES & WORKSHOPS

- A Glorious Glimpse of Ancient Indian Mathematics: A Survey — VVS Mahakumbha (International Conference), Gurukula Kangri (Deemed to be University) (23–25 Dec 2023).
- Mādhava’s Fuzzy Graceful Labeling — ICETCMDs’24 (International Conference), Sri Krishna Arts and Science College, Coimbatore (10–11 Jan 2024).
- Uncertainty Unraveled: Fuzzy Logic in Molecular Modeling — NCRMET 2024, GIET University, Gunupur (22 Dec 2024).
- Sustainability Before Sustainability: Vedic Material Practices and Their Eco – Philosophical Foundations — VIKSIT BHARAT @2047 (National Conference), J. V. Jain College, Saharanpur (13–14 Mar 2026).
- National Conference on “Knowledge, Cultural Traditions and Practices in India,” Gurukula Kangri University (29–31 March 2023).
- One-Week National Workshop on Research Methodology, Publication & Ethics (RMPE-2022), Gurukula Kangri (Deemed to be University), Haridwar and USERC (25 – 30 Mar 2022).
- One-Day Workshop on Vedic Mathematics, MDSD College, Ambala (28 Feb 2023).
- One-Week STTP on LaTeX, CSSR & SRRM Degree & PG College, Kadapa (2–7 Dec 2024).
- One-Day Workshop on Computing Calculus with Python, MathTech Thinking Foundation, Fazilka (23 Dec 2024).