# FACULTY PROFILE PROFORMA

**Dr. Manish Kumar**

| Title | **Dr.** | First Name | **Manish** | Last Name | **Kumar** | Photograph |
|---|---|---|---|---|---|---|
| Designation | Assistant Professor | | | | |  |
| Department | Mathematics | | | | | |
| Address (Official) | Department of Mathematics<br>Kalindi College East Patel Nagar,<br>Patel Nagar, New Delhi, Delhi-110008 | | | | | |
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**Education**

| **Course** | **Institution** | **Year** |
|---|---|---|
| Ph.D. | Indian Institute of Technology Roorkee, Roorkee | 2025 |
| M.Sc. Mathematics | Kirori Mal College, University of Delhi | 2016 |
| B.Sc.(H) Mathematics | Rajdhani College, University of Delhi | 2014 |

**Career Profile**

| **Organisation/Institution** | **Designation** | **Dates Employed** | **Role** |
|---|---|---|---|
| Kalindi College | Assistant Professor | Feb 2024 - Present | Undergraduate Teaching, Research |

**Research Interests/Specialization**

Optimization, Nature Inspired Optimization, Evolutionary Algorithms, Swarm Intelligence Based Algorithms

**Administrative Assignments / Contribution to corporate life**

- Member of Garden committee

**Teaching Experiences (Subject/Courses taught)**

- **B.Sc.(H) Mathematics (Paper description):** Number Theory, Analytic Geometry, Essentials of Python
- **B.A. Prog. (Paper description):** Differential Equations

**Research Guidance**

**Publication (Peer Reviewed/Indexed Journals)**

| **Year of Publication** | **Title** | **Name of Journal** | |
|---|---|---|---|
| **2024** | **Analysis of Marine Predators Algorithm using BIAS toolbox and Generalized Signature Test** | **Alexandria Engineering Journal** | |
| **2024** | **Discrete Marine Predators Algorithm for Symmetric Travelling Salesman Problem** | **Evolutionary Intelligence** | |

**Seminar/Workshop/Conferences Presentation/Organization**

- *Presented a paper "Opposition Based Local Escaping Marine Predators Algorithm for Continuous Optimization" on 9th International Conference on Metaheuristics and Nature Inspired Computing META held at Marrakech in Morocco, Nov 01-04, 2023.*
- *Presented a paper "Comparison Analysis of the Structural Biased of MPA and OLMPA" during 12th International Conference on Soft Computing for Problem Solving held at Indian Institute of Technology Roorkee, Roorkee, India, 11th to 13th August 2023.*
- *Participated in International Symposium "Recent Advance in Computational Analysis and Modelling" at Department of Mathematics, IIT Roorkee (June 2022)*
- *Participated in International Winter Training Course "Nature Inspired Optimization Techniques and their Applications using MATLAB" at Electronics & ICT Academy, IIT Roorkee (December 2020)*
- *Attended short-term course "Optimization Theory, Methods and Applications" at Department of Mathematics, IIT Roorkee (August 2020)*

**Faculty Development Programme**

- *Attended Faculty Development Program on "Soft Computing Paradigms: Next Generation Applications" held on July 13, 2024, in an online mode conducted by the Indian Institute of Technology Roorkee, India*.
- *Completed a 4-Week Faculty Induction/Orientation Programme at Teaching Learning Centre Ramanujan College, University of Delhi (21 February – 19 March 2024)*
- *Attended Faculty Development Program/Short-term Training Program "Advanced Optimization Techniques and hands-on with MATLAB/SCILAB (AOT 2022) organized by Ministry of Electronics and Information Technology (August 2022)*
- *Attended FDP on Multi-Objective Optimization "SCRS Lecture Series on soft Computing" organized by Soft Computing Research Society, India (June 2020)*
- *Participated in the Faculty Development Program "Mathematica: A Tool for Computational Analysis" at Hansraj College, University of Delhi (March 2018)*

**Awards & Distinctions**

- Qualified CSIR-SRF conducted by Council of Scientific & Industrial Research (CSIR), India (2021).
- Qualified CSIR-JRF conducted by Council of Scientific & Industrial Research (CSIR), India (2018).
- Qualified Graduate Aptitude Test in Engineering (GATE) conducted by Ministry of Human Resource Development (MHRD), India (2018).
- Qualified CSIR-NET conducted by Council of Scientific & Industrial Research (CSIR), India (2016).
- Qualified Joint Admission test for Masters (JAM) conducted by Ministry of Human Resource Development (MHRD), India (2014).

**Professional Societies Memberships**

- Lifetime member of Soft Computing Research Society, India

**Other Details**

Served as a Sub co-ordinator of The Placement Cell in Department of Mathematics, University of Delhi (2014-16)

**Manish Kumar**