# PERSONAL PROFILE

**Dr. MANOJ KUMAR**

Mob: +919455055612

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## Academic Qualification:

| Course | Year | Board/University | Division/percentage |
|---|---|---|---|
| **High School** | 2002 | U. P. Board | 1st (64.33 %) |
| **Intermediate** | 2004 | U. P. Board | 1st(71.80 %) |
| **B.Sc. (Mathematics, Physics)** | 2007 | Udai Pratap Autonomous College Varanasi (V.B.S. Purvanchal University, Jaunpur) | 1st (64.78%) |
| **M.Sc. (Mathematics)** | 2009 | Banaras Hindu University Varanasi | 1st (8.35/10) CGPA |
| **B. Ed. (Physical Sciences)** | 2010 | Banaras Hindu University Varanasi | 1st (67.10%) |
| **Ph.D. (Course Work)** | 2013 | Banaras Hindu University Varanasi | 1st (75.20%) |
| **Ph. D. (Mathematics)** | 2016 | Banaras Hindu University Varanasi | AWARDED |

**Other Qualification    :** 1. GATE-2012 (Mathematics)
2. CSIR UGC NET-JRF (Mathematical Science)
3. BHU CRET-2011 (Mathematics)

## Personal Details:

| | | |
|---|---|---|
| Father's Name | : | Late Shri Basakal |
| Mother's Name | : | Smt. Sudama Devi |
| Date of Birth | : | March 02, 1986. |
| Permanent Address | : | Village – Puari Khurd, Post – Puari Kalan, Varanasi-221202, U.P, India. |
| Language Known | : | Hindi & English |

**Extra-curricular activities**

- Scout Basic Course Part-1 from January 03, 2010 to January 07, 2010 .
- Games and Sports.

**Jobs**
- Assistant Professor, Applied Sciences and Humanities Department, Institute of Engineering & Technology, Lucknow (a constituent college of Dr. A. P. J. Abdul Kalam Technical University Uttar Pradesh, Lucknow) from August 28, 2017 to till date.

**Orientation Programme**

- 4-Week Induction/Orientation Programme for "Faculty in Universities/Colleges/Institutes of Higher Education" 01st Sep 2020 - 30th Sep 2020 Teaching Learning Centre, Ramanujan College University of Delhi Attendee.

**Refresher Courses**

- Fourier Analysis and Its Applications 01st Dec 2020 - 31st Mar 2021 Annual Refresher Programme in Teaching (ARPIT) SWAYAM-AICTE, India Attendee.
- Two-week refresher course in "MATHEMATICS" 16th Mar 2021 - 30th Mar 2021, Teaching Learning Centre, Ramanujan College University of Delhi Attendee.
- Two week refresher course in "Applicable Mathematics" 26th Jul 2022 - 08th Aug 2022, Teaching Learning Centre, Ramanujan College University of Delhi Attendee

**MOOCS/MODULES**

- Modern Algebra, 31st Aug 2019 - 10th Nov 2019 SWAYAM , Madurai Kamraj University Attendee
- Measure Theory, 18th Jan 2021 - 09th Apr 2021 SWAYAM-NPTEL online Course Attendee
- Fourier Analysis and Its Applications, 01st Dec 2020 - 31st Mar 2021 Annual Refresher Programme in Teaching (ARPIT) SWAYAM-AICTE, India Attendee.
- Module 1- Orientation Towards Technical Education and Curriculum Aspects, 12th Feb 2020 - 27th Apr 2020, AICTE-NITTT Chennai Attendee
- Module 2 - Professional Ethics & Sustainability, 10th Sep 2020 - 11th Nov 2020, AICTE-NITTT Chennai Attendee
- Module 3 – Communication Skills, Modes and Knowledge Dissemination, AICTE-NITTT Chennai Attendee
- Module 4- Instructional Planning and Delivery 01st Apr 2022 - 31st May 2022 National Institute of Technical Teachers Training and Research, Bhopal Attendee
- Module 5 – Technology Enabled Learning and Life-Long Self Learning, AICTE-NITTT Chennai Attendee

- Module 6 - Student Assessment and Evaluation 01st Apr 2022 - 31st May 2022 National Institute of Technical Teachers Training and Research, Chennai Attendee
- Module 7 – Creative Problem Solving, Innovation and Meaningful R & D, AICTE-NITTT Chennai Attendee
- Module 8 - Institutional Management & Administrative procedures 01st Apr 2022 - 31st May 2022 National Institute of Technical Teachers Training and Research, Chandigarh Attendee
- Dynamical System and Control 23rd Jan 2023 - 14th Apr 2023 IIT Roorkee (SWAYAM-NPTEL online Course) Attendee

**Published Research Papers**

1. Shyam Lal and **Manoj Kumar**, Approximation of Functions of Space $L^2(\mathbb{R})$ by Wavelet Expansions, Lobachevskii Journal of Mathematics, Vol. 34, No. 2, pp. 163–172, 2013.
2. Shyam Lal and **Manoj Kumar**, "On Generalized Carleson Operators of Periodic Wavelet Packet Expansions," The Scientific World Journal, Vol. 2013, Article ID 379861, 10 pages, 2013. doi:10.1155/2013/379861. **(I.F-1.73)**
3. Shyam Lal and **Manoj Kumar**, Wavelet Approximation Using $(\Lambda \cdot C_1)$ Matrix-Cesàro Summability Method of Jacobi Series, International Journal of Computer Applications, Vol. 147, No. 14, pp. 1-9, 2016.
4. **Manoj Kumar** and Shyam Lal, On Cesˋaro's Means of First Order of Wavelet Packet Series, Ratio Mathematica, Vol. 41(2021), pp. 197-205, 2021.
5. **Manoj Kumar** and Shyam Lal, On the Convergence of Wavelet Frame Series, Palestine Journal of Mathematics, Vol. 11(Special Issue I), pp. 46-57, 2022.
6. **Manoj Kumar**, Generalized Continuous Integral Wavelet Transform and Its Properties, Ratio Mathematica, Vol. 43(2022), pp. 151-162, 2022.
7. Vivek, **Manoj Kumar**, and S. N. Mishra. "A fast Fibonacci wavelet-based numerical algorithm for the solution of HIV-infected CD4+ T cells model." The European Physical Journal Plus. 2023 May 25;138(5):458. **(I.F.-3.758)**
8. Vivek, **Manoj Kumar**, and S. N. Mishra. "Solution of linear and nonlinear singular value problems using operational matrix of integration of Taylor wavelets." Journal of Taibah University for Science 17, no. 1 (2023): 2241716. **(I.F.-3.3)**

**Conferences / Workshops / Training Programmes**

**International**

- International Conference on Mathematics and Computation (ICMC-2021) 22nd Oct 2021 - 23rd Oct 2021 Department of Applied Sciences and Humanities, Rajkiya Engineering College, Kannauj, UP, India Author
- Advanced Topics in Mathematics-2021 08th Oct 2021 - 12th Oct 2021 Centre for Applied Mathematics, International Institute of Information Technology Naya Raipur Attendee
- Advanced Linear Algebra 27th Sep 2021 - 01st Oct 2021 Miranda House, University of Delhi in collaboration with Mahatma Hansraj FDC Hansraj College, University of Delhi Attendee
- The 4th International Conference on Mathematical Modelling, Applied Analysis and Computation-2021 05th Aug 2021 - 07th Aug 2021 Department of Mathematics, Faculty of Science, JECRC University, Jaipur (Raj.), India Author
- 18th International Conference of International Academy of Physical Sciences on Recent Trends in Physical Sciences 22nd Dec 2015 - 24th Dec 2015 Faculty of Science, University of Allahabad, Allahabad 211002 India Author

**National**

- Recent Developments in Mathematical Sciences and Engineering 22nd Dec 2021 - 26th Dec 2021 Maharshi Dayanand University, Rohtak Attendee
- Advanced Mathematical Techniques in Engineering and Technology 18th Oct 2021 - 22nd Oct 2021 Maharshi Dayanand University Rohtak Attendee
- Sustainable Change Management in Technical Institutes for NEP – 2020 Implementation 23rd Aug 2021 - 28th Aug 2021 Government Engineering College, Bilaspur Attendee
- Mathematical Analysis and its Applications 26th Jul 2021 - 31st Jul 2021 Vivekananda College, University of Delhi in collaboration with Mahatma Hansraj Faculty Development Centre Hansraj College, University of Delhi Attendee
- Research Methodology-2021 22nd Jun 2021 - 23rd Jun 2021 The Bhaskara's Association, Department of Mathematics, Faculty of Science, SGT University, Gurugram, Haryana, India Attendee
- Applications of Mathematics in Business and Social Sciences 18th Mar 2021 - 24th Mar 2021 Department of Mathematics & IQAC Miranda House, University of Delhi Attendee
- Renewable Energy and Effluent Treatment (REET-2021) 01st Mar 2021 - 05th Mar 2021 Department of Chemical Engineering, Institute of Engineering and Technology, Lucknow Attendee
- Sustainable Trends in Energy and Environment (STEE-2021) 06th Feb 2021 - 10th Feb 2021 Department of Chemical Engineering, Institute of Engineering and Technology, Lucknow Attendee

- Emotional Intelligence 19th Oct 2020 - 23rd Oct 2020 Marathwada Mitra Mandal's College of Pharmacy Attendee
- Mathematical Tools and Recent Advances in Mathematics 21st Sep 2020 - 25th Sep 2020 Mathematics and Scientific Computing Department, Madan Mohan Malaviya University of Technology, Gorakhpur Attendee
- Enablers of Quality in Technical Education for Employbility 24th May 2020 - 24th May 2020 Dr. A. P. J. Abdul Kalam Technical University, Uttar Pradesh, Lucknow Attendee
- Relevance of Ayurvedic Practices in current scenario 18th May 2020 - 18th May 2020 AKTU Lucknow Attendee
- Problem Based and Project Based Learning 22nd Feb 2020 - 22nd Feb 2020 State Project Implementation Unit -UP Attendee
- Equity: Achievements and Challenges in India 15th Mar 2019 - 16th Mar 2019 NPIU, MHRD, Government of India, New Delhi and SPIU, Maharashtra State, Mumbai in association with the College of Engineering Pune Attendee
- Advances in Renewable and Bioenergy 19th Feb 2019 - 23rd Feb 2019 Department of Chemical Engineering, IET Lucknow Attendee
- Renewable Energy and Environment 27th Feb 2018 - 27th Feb 2018 Department of Chemical Engineering, IET Lucknow Attendee
- Universal Human Values and Professional Ethics 15th Dec 2017 - 22nd Dec 2017 Teqip III, IET LUCKNOW Attendee
- 30th Annual National Conference of the Mathematical Society Banaras Hindu University on Mathematical Analysis and… 30th Jan 2015 - 31st Jan 2015 Department of Mathematics, BHU, Varanasi Author
- 29th Annual National Conference of the Mathematical Society Banaras Hindu University on recent trends in Mathematical… 03rd Feb 2014 - 04th Feb 2014 Department of Mathematics, BHU, Varanasi Author
- National conference on Application of Modern Mathematical Techniques in the Field of Summability and Central Theme of… 23rd Jan 2012 - 24th Jan 2012 Shri Baldeo P. G. College Baragaon, Varanasi, UP Author

**Additional Responsibilities at IET, Lucknow/ AKTU, Lucknow**
- Associate Dean Student Welfare, AKTU, Lucknow
- Warden, IET, Lucknow
- Deputy Controller of Examination, AKTU, Lucknow
- Member of Scholarship Disbursement Committee.
- Member, Board of Studies, Department of Applied Science, IET, Lucknow.

Date:

Place: Varanasi.                                                          (*Manoj Kumar*)