

FACULTY PROFILE PROFORMA

Mathematics is a regular mental exercise that enhances concentration, develops logical thinking and supports true decision-making - Dr. Avneesh Kumar Sherwal

Title (Ms/Mr/Dr/Prof)	Dr.	First Name	AVNEESH	Last Name	KUMAR	Photograph
Date of Birth	6 th August, 1991					
Age	31 years					
Designation	Assistant Professor					
Department	Department of Mathematics					
Teaching Experience	9 years in Kalindi College, University of Delhi					
Research papers published	5 (2 Scopus +3 Sci)					
Books Published	1					
Address	Department of Mathematics Kalindi College, East Patel Nagar New Delhi-110008					
Email	Avneeshkumar@kalindi.du.ac.in					

Education

Ph.D. entitled: Mathematical study & data analysis of long-term solar activities and variability using observational catalogues, M.Sc. Mathematics, B.Ed., B.Sc.(PSM)

Career Profile

Organisation/Institution	Designation	Duration
Kalindi College	Ad-hoc Assistant Professor	22.08.2017 to 02.02.2024
Kalindi College	Assistant Professor	03.02.2024 to till date

Research Interests/Specialization

Data analysis, Applied Mathematics

Software Knowledge

MATLAB, IDL, Python, Statistical Software R, EViews, Advanced excel, Mathematica

Convener/ member of paper setting:

- i) Convener of paper setting committee May-June 2026
- ii) Member of paper setting committee Nov-Dec 2025
- iii) Convener of paper setting committee May-June 2023
- iv) Convener of paper setting committee, Nov-Dec 2023
- v) Convener of paper setting committee Nov-Dec 2022
- vi) Member of paper setting committee, Nov-Dec 2021

Administrative Assignments / Contribution to corporate life

1. Member, Department Time Table Committee Odd & Even Sem. 2018,2021,2022
2. Convener, Department Time Table Committee Odd & Even Sem. 2022
3. In-charge, Departmental Library Even Sem. 2018, Odd Sem.2019

Teaching Experiences (Subject/Courses taught)

- Assistant Professor (Ad- hoc): Kalindi College, University of Delhi, Delhi, 110008, India.
[AUGUST 22, 2017 to FEBRUARY 2nd, 2024]
- Assistant Professor: Kalindi College, University of Delhi, Delhi, 110008, India.

[February 03, 2024 to continue]

➤ Teaching Experience: 9 years.

Following Description to Courses Taught:

- B.Sc.(H) I, II, III, V & VI Sem. Paper description: Biomathematics, Calculus, Riemann Integration & Series of Functions, Theory of real functions, Differential Equations, Mathematical Modelling, Complex Analysis, GE-differential Equation (with practical)
- B.A.(Prog) I, II, V Sem. Paper description: General mathematics-I, Statistical Software -R, probability theory & statistics, Algebra, Transportation and network flow problems, Type setting system Latex
- B.Sc. Physical science (Prog) I, III, IV, V&VI Sem. Paper description: Differential Equation (with practical), Algebra, Real Analysis, Statistical Software-R, Transportation and network flow problems, probability theory & statistics
- B.VOC I, II Sem. Fundamentals of Mathematics, Fundamental of Statistics

Publication (Peer Reviewed/Indexed Journals)

Year of Publication	Title	Journal (Name of the journal. Vol Issue ISSN)	Co-Author
2022	Diagnosis Of Skin Cancer By Using Fuzzy-Ann Expert System With Unification Of Improved Gini Index Random Forest-Based Feature	Journal of Pharmaceutical Negative Results 22297723	
2023	FIS-Based Prediction And Estimation Of Health Insurance For Workers In The Manufacturing Sector	Journal of Pharmaceutical Negative Results 22297723	
2023	Temporal and spatial variability of EUV flux at 094 Å and its relationship with sunspot activity	New Astronomy 102085	
2024	Comparative study of solar rotation of transition region and corona using solar irradiance and radio flux	Solar Physics 299-09(0038-0938)	
2025	Statistical analysis of sunspot area and magnetic flux on solar disc during 2011-2023	Solar Physics 300-09(0038-0938)	

Books Published

Year: 2024 Title: DATA MODELLING AND STATISTICAL ANALYSIS Publisher (Name of the publisher. Vol Issue ISBN): Rest Publishers Ltd. ISBN: 978-81-972876-6-4

Seminar/Workshop/Conferences Presentation/Organisation

1. 30th Oct. to 1st Nov. 2017 three- Day Workshop on Vedic Mathematics at Department of Mathematics, Kalindi College University of Delhi.
2. 23rd April 2018 One day workshop on **Mathematical Biology** Department of Biophysics, UDSC, Delhi.
3. 27 Feb. 2019 Seminar on **CAREER COUNSELLING**, Department of Journalism Kalindi College University of Delhi.
4. 1st June to 6th June, 2019 One week FDP on **Basic Research Methodology** at **Guru Anand Dev Teaching Learning Centre of MHRD, SGTB Khalsa College**, University of Delhi.
5. 13th January to 15th January 2020 three days, workshop on **Data Science and Programming with Python** Organized by department of statistics, university of Delhi in conjunction with StepUp Analytics, Gurgaon, India.
6. 11th May to 15th May 2020 one week FDP on R Programming at “BIT Mesra off campus Noida in Association with **Spoken Tutorial Project, IIT Bombay**”.
7. 24th Jan. to 26th Jan. 2021 three-day online Workshop on “**TIME SERIES (Econometrics)**” Organized by “**Primax Academy, Bengaluru, Karnataka, INDIA**”.

8.	21 st June to 25 th June ,2021 One week FDP on DATA ANALYSIS in MS Excel (Online mode) organized by REST Society for Research International (RSRI) Tamil Nadu, India.
9.	28 th June to 2 nd July, 2021 one week FDP on Research Paper Writing (online mode) organized by REST Society for Research International (RSRI) Tamil Nadu, India.
10.	5 th July to 10 th July, 2021 One week FDP on Recent Trends in Data Analysis in R (online mode) organized by REST Society for Research International (RSRI) Tamil Nadu, India.
11.	3 th August to 17 th August, 2021 two week (online) interdisciplinary FDP on MOOC'S, E-Content development, Research methodology and statistical tools in Open Education World organised by Kalindi College in collaboration with MHFDC Hansraj college University of Delhi.
12.	16 th August to 21 th August, 2021 One week FDP on Structural Equation modelling (online mode) organized by REST Society for Research International (RSRI) Tamil Nadu, India.
13.	23 th August to 27 th August, 2021 One week FDP on Data Analysis Python and R (online mode) organized by REST Society for Research International (RSRI) Tamil Nadu, India.
14.	30 th August to 4 th Sept. ,2021 One week FDP on Analysis of data by R (Online mode) organized by REST Society for Research International (RSRI) Tamil Nadu, India.
15.	8 th Nov. to 20 th Dec. 2021, Online Course ' Astronomical data analysis using Python ' Organized by NRC IUCAA .
16.	17 th January to 22 th January. ,2022 One week FDP on Emerging trends in data analysis in Python (Online mode) organized by REST Society for Research International (RSRI) Tamil Nadu, India.
17.	11 th July to 15 th July. ,2022 One week FDP on Emerging trends in data analysis in using MATLAB (Online mode) organized by REST Society for Research International (RSRI) Tamil Nadu, India.
18.	22 nd June to 28 th June 2023, seven days Faculty Enhancement Program organised by IQAC and Research committee in Kalindi College University of Delhi.
19.	Present a paper titled: "The impact of solar activity on climate" in International Conference on Socio-Cultural Institutions, Information and Practices in India and Europe held on 16 th December, 2023 at MMH College Ghaziabad, India .
20.	16 th oct. to 18 th Oct. 2023 three-day annual Youth conclave of Youth United for Vision & Action (YUVA), Vimarsh 23 at Ramanujan College, University of Delhi.
21.	21 th February to 19 th March., 2024 Four weeks Faculty Induction/Orientation Programme for "Faculty in Universities/Colleges/Institutes of Higher Education" organized by Teaching Learning Centre Ramanujan College, University of Delhi, India.
22.	14 th Oct. to 26 th Oct 2024, Two weeks FDP on recent advancement in Mathematics, Statistics and computer science organised by MMTTC central university of south Bihar, Gaya.
Awards & Distinctions	
Young Scientist Award NCSTIR-2026 held on 24-25 Feb., 2026	
Public Service/ University Service/ Consulting Activity	
Professional Societies Memberships	
Projects (MajorGrants/ Collaborations)	
OtherDetails	
It is my honor to have worked with Prof. Nagendra Kumar (DTU), Prof. Hari Om Vats (PRL).	

Dr. AVNEESH KUMAR