



Kirori Mal College

(University of Delhi)

University of Delhi, Delhi-110007

(Phone No. - 011-7121 9084 : Email - principal@kmc.du.ac.in)



Print Date : 02-06-2026

1. Personal Profile

Title: **Dr.** First Name: **PRANAV** Last Name: **KUMAR**

Designation: **ASSISTANT PROFESSOR** Mobile No. -----

Phone No. (Office) ----- Phone No. (Residence): -----

Email: **pranavmoon@kmc.du.ac.in** Webpage: -----



Facebook: ----- Twitter: -----

LinkedIn: ----- Instagram: -----

Youtube: ----- Research Gate Link: -----

Google Scholar Link: -----

Address: -----

2. Educational Qualifications

Degree/ Certification	Institution	Year
B.Sc. (Hons) Physics	Hindu College, University of Delhi	2000
M.Sc. Physics	Department of Physics and Astrophysics and Hindu College, University of Delhi	2002
Ph.D.	Department of Physics and Astrophysics, University of Delhi	2008
CSIR-UGC (JRF-NET)	CSIR	2001

3. Career Profile & Administrative Assignments

Category	Role/ Designation	Department/ Committee	Date From - To	Remarks
CAREER PROFILE	ASSISTANT PROFESSOR	PHYSICS KIRORI MAL COLLEGE, DELHI	01.Sep.2008 - 30.Apr.2010	Ad-hoc basis
CAREER PROFILE	ASSISTANT PROFESSOR	PHYSICS KIRORI MAL COLLEGE, DELHI	07.Sep.2010 - 17.Oct.2022	Ad-hoc basis
CAREER PROFILE	ASSISTANT PROFESSOR	PHYSICS KIRORI MAL COLLEGE, DELHI	19.Oct.2022 - Till date	Permanent

ADMINISTRATIVE ASSIGNMENTS	MEMBER	TIME TABLE COMMITTEE KIRORI MAL COLLEGE, DELHI	01.Jul.2011 - 30.Jun.2018	Department of Physics
ADMINISTRATIVE ASSIGNMENTS	CONVENER	PHYSICS KIRORI MAL COLLEGE, DELHI	01.Sep.2019 - 30.Jun.2024	KMC Physics Astronomy Club
ADMINISTRATIVE ASSIGNMENTS	MEMBER	TIME TABLE COMMITTEE KIRORI MAL COLLEGE, DELHI	01.Jul.2019 - 30.Jun.2024	Department of Physics
ADMINISTRATIVE ASSIGNMENTS	MEMBER	PROSPECTUS COMMITTEE KIRORI MAL COLLEGE, DELHI	01.Jul.2023 - Till date	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	COORDINATING COMMITTEE FOR INFORMATION AND TECHNOLOGY KIRORI MAL COLLEGE, DELHI	01.Jul.2023 - Till date	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	FAPS – THE FINE ARTS & PHOTOGRAPHY SOCIETY KIRORI MAL COLLEGE, DELHI	01.Jul.2023 - Till date	
ADMINISTRATIVE ASSIGNMENTS	OTHERS	KIRORI MAL COLLEGE KIRORI MAL COLLEGE, DELHI	01.Nov.2022 - 31.Jan.2023	Joint Deputy Superintendent, University Under-Graduate (Regular and SOL) Semester Examinations Nov./Dec-2022
ADMINISTRATIVE ASSIGNMENTS	OTHERS	KIRORI MAL COLLEGE KIRORI MAL COLLEGE, DELHI	01.Feb.2023 - 31.Mar.2023	Deputy Superintendent, University Under-Graduate (Regular and SOL) Semester Examinations Feb./March-2023
ADMINISTRATIVE ASSIGNMENTS	OTHERS	KIRORI MAL COLLEGE KIRORI MAL COLLEGE, DELHI	01.May.2023 - 30.Jun.2023	Deputy Superintendent, University Under-Graduate (Regular and SOL) Semester Examinations May/June-2023
ADMINISTRATIVE ASSIGNMENTS	OTHERS	KIRORI MAL COLLEGE KIRORI MAL COLLEGE, DELHI	01.Jul.2023 - 31.Aug.2023	Deputy Superintendent, University Under-Graduate (Regular and SOL) Semester Examinations May/June-2023
ADMINISTRATIVE ASSIGNMENTS	MEMBER	WORKLOAD COMMITTEE KIRORI MAL COLLEGE, DELHI	01.Jul.2019 - 30.Jun.2025	Department of Physics
ADMINISTRATIVE ASSIGNMENTS	MEMBER	COMMITTEE FOR COMMON COURSES KIRORI MAL COLLEGE, DELHI	01.Jul.2023 - Till date	
ADMINISTRATIVE ASSIGNMENTS	OTHERS	KIRORI MAL COLLEGE KIRORI MAL COLLEGE, DELHI	01.Aug.2022 - 31.Aug.2022	Joint Deputy Superintendent, University Under-Graduate (Regular and SOL) Semester Examinations Aug-2022
ADMINISTRATIVE ASSIGNMENTS	OTHERS	KIRORI MAL COLLEGE KIRORI MAL COLLEGE, DELHI	01.May.2022 - 30.Jun.2022	Joint Deputy Superintendent, University Under-Graduate (Regular and SOL) Semester Examinations May/June-2022

ADMINISTRATIVE ASSIGNMENTS	MEMBER	MUSOC – THE MUSIC SOCIETY KIRORI MAL COLLEGE, DELHI	01.Jul.2023 - Till date	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	TIME TABLE COMMITTEE Kirori Mal college	01.Jul.2023 - 30.Jun.2024	Department of Physics
ADMINISTRATIVE ASSIGNMENTS	MEMBER	OTHERS Department of Physics and Astrophysics, University of Delhi	17.Oct.2024 - 30.Jun.2025	Sub-Committee of the Committee of Courses in Physics for B.Sc.(Physics).

4. Other Profiles

Other Profile Name/ Description

AREAS OF INTEREST/ SPECIALIZATION

1. Astrophysics
2. Cosmology

SUBJECTS TAUGHT

2022-2023

- B.Sc. (H) Physics, Sem-5: Astronomy and Astrophysics (32227506) [DSE]
- B.Sc. (H) Physics, Sem-5: Quantum Mechanics and Applications LAB (32221501) [CORE]
- B.Sc. (Prog) Physical Science, Sem-5: Numerical Analysis Lab (42223902) [SEC]
- B.Sc. (H) Physics, Sem-6: Classical Dynamic (32227626) [DSE]
- B.Sc. (H) Physics, Sem-6: Statistical Mechanics LAB (32221602) [CORE]
- B.Sc. (H) Physics, Sem-4: Mathematical Physics-3 LAB (32221401) [CORE]
- B.Sc. (H) Physics, Sem-4: Computational Physics Skills (32223902) [SEC]
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2023-2024

• B.Sc. (H) Physics, Sem-2: Mathematical Physics-2 LAB(2222011201) [CORE]

- B.Sc. (H) Physics, Sem-5: Astronomy and Astrophysics (32227506) [DSE]
- B.Sc. (H) Physics, Sem-5: Quantum Mechanics and Applications LAB (32221501) [CORE]
- B.Sc. (Prog) Physical Science, Sem-5: Numerical Analysis Lab (42223902) [SEC]
- B.Sc. (H) Physics, Sem-6: Classical Dynamic (32227626) [DSE]
- B.Sc. (H) Physics, Sem-6: Statistical Mechanics LAB (32221602) [CORE]

2024-2025

B.Sc. (H) Physics, Sem-5: Astronomy and Astrophysics [DSE] 2223010013
B.Sc. (H) Physics, Sem-5: Quantum Mechanics Lab [core] 2222013501
B.Sc. (H) Physics, Sem-3: Mathematical Physics-3 Lab [core] 2222012301
B.Sc. (Prog) Physical Science, Sem-3: Heat and Thermodynamics [core] 2222512301
B.Sc. (H) Physics, Sem-6: Statistical Analysis in Physics [core] 2222013603
B.Sc. (H) Physics, Sem-6: Statistical Analysis in Physics Lab [core] 2222013603
B.Sc. (H) Physics, Sem-2: Mathematical Physics-2 LAB(2222011201) [CORE]

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FIELD TRIPS ORGANIZED

- Students Visit to NPL and IUAC

5. Research Guidance

Year	Guide For	Title of the Dissertation/ Thesis	Scholar Name	Status
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6. Research Projects

Year	Title of Project	Sponsorship Agency	Duration	Amount Sanctioned	Date of Sanction
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7. Publications

Category	Publication Name	Title	Name of Author	Reference Link/ DOI Link	Publication (Month-Year)
JOURNAL PAPER (International)	Theoretical analysis of relativistic energy corrections, partition function and thermodynamic properties of spherically confined hydrogen atom	THE EUROPEAN PHYSICAL JOURNAL D	Rachna Joshi, Arun Goyal, Pranav Kumar, and Man Mohan (Joint Author)	https://doi.org/10.1140/epjd/s10053-022-00484-6	August 2022
JOURNAL PAPER (International)	Above Threshold Ionization spectra for Debye plasma embedded atom interacting with femtosecond laser pulse	SPECTROSCOPY LETTERS	Rachna Joshi , Pranav Kumar , Alok Kumar Singh Jha and Man Mohan (Corresponding Author)	https://doi.org/10.1080/00387010.2023.2194366	March 2023
JOURNAL PAPER (International)	A concordant 'freely coasting' cosmology	Journal of Astronomy and Astrophysics	Savita GAHLAUT , PRANAV KUMAR, GEETANJALI SETHI and DAKSH LOHIYA (Joint Author)	https://doi.org/10.1007/s12036-025-10127-y	February 2026
JOURNAL PAPER (International)	Modified entanglement patterns in two-flavor neutrinos from quantum-gravity interactions	Nuclear Physics, Section B	Bipin Singh Koranga , Baktiar Wasir Farooq, Pranav Kumar (Joint Author)	https://doi.org/10.1016/j.nuclphysb.2026.117373	February 2026

8. Books

Category	Book Name	Title	Name of Author	ISSN/ ISBN Number
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9. Faculty Achievements

Year	Category of Achievement	Role	National/ International etc.	Name	Date From-To
2023	REFRESHER COURSE ATTENDED	PARTICIPANT	National	"Managing Online Classes & Co- creating MOOCS 27.0"	06.Jun.2023 - 20.Jun.2023
2023	REFRESHER COURSE ATTENDED	PARTICIPANT	National	REFRESHER COURSE in "PHYSICS"	27.Feb.2023 - 13.Mar.2023
2023	WORKSHOP/ SEMINAR/ CONFERENCE ATTENDED	PARTICIPANT	College	2-day Hands-on Workshop on Arduino Programming	24.Mar.2023 - 25.Mar.2023
2023	FACULTY INDUCTION PROGRAM ATTENDED	PARTICIPANT	National	4-Week Faculty Induction/Orientation Programme for "Faculty in Universities/Colleges/Institutes of Higher Education"	20.Jan.2023 - 18.Feb.2023
2023	WEBINAR ATTENDED	ORGANIZER	College	"INSTRUMENTS IN INDIAN ASTRONOMICAL TEXTS"	21.Mar.2023 - 21.Mar.2023
2022	REFRESHER COURSE ATTENDED	PARTICIPANT	National	Online Inter-Disciplinary Two-Week Refresher Course On "Managing Online Classes & Co- creating MOOCS 21.0"	07.Dec.2022 - 21.Dec.2022
2022	SEMINAR ATTENDED	ORGANIZER	College	Astronomy: Brief Answers to Big Questions	30.Aug.2022 - 30.Aug.2022
2022	ONLINE CERTIFICATE COURSE/ TRAINING PROGRAMS ATTENDED	PARTICIPANT	International	Fundamentals of astronomy using Stellarium	08.Aug.2022 - 26.Aug.2022
2021	FACULTY DEVELOPMENT PROGRAM ATTENDED	PARTICIPANT	National	TWO - WEEK REFRESHER COURSE/FACULTY DEVELOPMENT PROGRAMME on "Managing Online Classes & Co- creating MOOCS 8.0"	04.Sep.2021 - 18.Sep.2021
2024	WORKSHOP/ SEMINAR/ CONFERENCE ATTENDED	PARTICIPANT	International	Astronomy Themed Workshop 2023	08.Aug.2023 - 12.Aug.2023
2021	FACULTY INDUCTION PROGRAM ATTENDED	PARTICIPANT	National	4-Week Induction/Orientation Programme for "Faculty in Universities/Colleges/Institutes of Higher Education"	11.Feb.2021 - 13.Mar.2021
2024	ONLINE CERTIFICATE COURSE/ TRAINING PROGRAMS ATTENDED	PARTICIPANT	National	NEP 2020 ORIENTATION & SENSITIZATION PROGRAMME	07.May.2024 - 16.May.2024

2023	WORKSHOP/ SEMINAR/ CONFERENCE ATTENDED	PARTICIPANT	National	Pedagogic workshop on Astronomy, Astrophysics, and Cosmology	06.Nov.2023 - 10.Nov.2023
2021	ONLINE CERTIFICATE COURSE/ TRAINING PROGRAMS ATTENDED	PARTICIPANT	International	Astronomical Data Analysis Using Python	08.Nov.2021 - 18.Dec.2021
2021	FACULTY DEVELOPMENT PROGRAM ATTENDED	PARTICIPANT	National	"Programming in Python"	06.Dec.2021 - 10.Dec.2021
2025	WORKSHOP/ SEMINAR/ CONFERENCE ATTENDED	PARTICIPANT	International	Workshop on Deep Learning with Python – Basics to Advanced Applications	01.Apr.2025 - 03.Apr.2025
2021	WORKSHOP/ SEMINAR/ CONFERENCE ATTENDED	PARTICIPANT	International	The HR Diagram with remote telescopes at LCO	02.Oct.2021 - 03.Oct.2021
2025	WORKSHOP/ SEMINAR/ CONFERENCE ATTENDED	PARTICIPANT	University	workshop on "Statistical Analysis in Physics"	09.Jan.2025 - 09.Jan.2025
2020	FACULTY DEVELOPMENT PROGRAM ATTENDED	PARTICIPANT	National	Two Weeks Faculty Development Programme on "ENHANCING PSYCHOLOGICAL SKILLS FOR TEACHING & PRACTICE"	15.Sep.2020 - 29.Sep.2020
2020	FACULTY DEVELOPMENT PROGRAM ATTENDED	RESOURCE PERSON	National	LibreOffice Suite	17.Aug.2020 - 23.Aug.2020

Dr. PRANAV KUMAR