



# 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: **KIRTEE** Last Name: **KUMAR**

Designation: **ASSISTANT PROFESSOR** Mobile No. **9717278587**

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

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



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

LinkedIn: <https://www.linkedin.com/in/kirtee-poonia-89315357/> Instagram: -----

Youtube: ----- Research Gate Link: <https://www.researchgate.net/profile/Kirtee-Kumar>

Google Scholar Link: <https://scholar.google.com/citations?user=ouKLtQ0AAAAJ&hl=en&oi=ao>

Address: **DEPARTMENT OF PHYSICS, KIRORI MAL COLLEGE, UNIVERSITY OF DELHI, NEW DELHI-110007**

## 2. Educational Qualifications

Degree/ Certification	Institution	Year
Ph.D.	University of Delhi, New Delhi	2025

## 3. Career Profile & Administrative Assignments

Category	Role/ Designation	Department/ Committee	Date From - To	Remarks
CAREER PROFILE	ASSISTANT PROFESSOR	PHYSICS KIRORI MAL COLLEGE, DELHI	19.Oct.2022 - Till date	
CAREER PROFILE	ASSISTANT PROFESSOR	PHYSICS MOTI LAL NEHRU COLLEGE, DELHI	12.Jan.2016 - 18.Oct.2022	
CAREER PROFILE	ASSISTANT PROFESSOR	PHYSICS GAUTAM BUDDHA UNIVERSITY, UTTAR PRADESH	17.Aug.2015 - 30.Nov.2015	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	HOSTEL ADMISSION COMMITTEE KIRORI MAL COLLEGE, DELHI	01.Jun.2023 - 31.May.2025	

ADMINISTRATIVE ASSIGNMENTS	MEMBER	SPORTS COUNCIL KIRORI MAL COLLEGE, DELHI	01.Jun.2023 - Till date	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	KARTAVYA- THE CIVIL SERVICE SOCIETY KIRORI MAL COLLEGE, DELHI	01.Jun.2023 - 31.May.2025	

<b>4. Other Profiles</b>
<b>Other Profile Name/ Description</b>

## **SUBJECTS TAUGHT**

### **Kirori Mal College, University of Delhi**

Mathematical Physics-I (Practical-Python & Theory)

Electric Circuit Analysis (Theory)

Mathematical Physics-III(Theory-Practical)

Electricity & Magnetism (Practical)

Essentials of Python (Skill Enhancement Course)

Programming with Python (Skill Enhancement Course)

Digital Empowerment (Value Added Course)

### **Motilal Nehru College, University of Delhi**

Mathematical Physics-1 (Practical - C++ & Theory)

Mechanics (Practical & Theory)

Waves and optics (Practical & Theory)

Mathematical Physics-III(Theory)

Electricity & Magnetism (Practical)

Thermodynamics and Statistical Mechanics(Theory)

Mathematical Physics-II (Practical-Scilab)

Quantum Mechanics (Practical-Scilab & Theory)

Statistical Mechanics (Practical-Scilab)

Electrical circuit and Network Skills (Skill Enhancement Course)

### **Gautam Buddha University, Greater Noida**

Nuclear & Particle Physics -M.Sc.(Theory)

Applied Physics- B.Tech(Theory)

**AREAS OF INTEREST/ SPECIALIZATION**

Quantum Information Theory

Confined Atomic Systems

Computational Methods

Theoretical Physics

**Computer Language/Software**

C/C++

Scilab

Matlab

Mathematica

Python

**FIELD TRIPS ORGANIZED**

Education Trip at CSIR-National Physical Laboratory, New Delhi on 4 October 2023 (54 students).

**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)	Control of Correlation Using Confinement in Case of Quantum System	Annalen der Physik	Kirtee Kumar, Vinod Prasad (First Author)	10.1002/andp.202300166	September 2023

JOURNAL PAPER (International)	Analysis of Shannon Entropy and Quantum States of a Confined Hydrogen Atom Screened by the Hellmann Potential	Advanced Theory and Simulations	Kirtee Kumar, Vinod Prasad (First Author)	<a href="https://doi.org/10.1002/adts.202401194">https://doi.org/10.1002/adts.202401194</a>	December 2024
JOURNAL PAPER (International)	Effect of electric and magnetic field on thermal property of two dimensional harmonic oscillator	Results in Physics	Monika Arora, Rajesh Giri, Varsha, Kirtee Kumar, Chanchal Yadav, Bhavna Vidhani, Monica Gambhir, Vinod Prasad (Joint Author)	<a href="https://doi.org/10.1016/j.rinp.2023.106225">https://doi.org/10.1016/j.rinp.2023.106225</a>	January 2023
JOURNAL PAPER (International)	Few generalized entropic relations related to Rydberg atoms	Scientific Reports	Kirtee Kumar, Vinod Prasad (First Author)	<a href="https://doi.org/10.1038/s41598-022-10854-0">https://doi.org/10.1038/s41598-022-10854-0</a>	May 2022
JOURNAL PAPER (International)	Multipole polarizabilities and dipole oscillator strengths of H-atom in nonideal classical plasmas	The European Physical Journal Plus	K. D. Sen, Kirtee Kumar, Chanchal Yadav, Vinod Prasad (Joint Author)	<a href="https://doi.org/10.1140/epjp/s13360-021-02288-w">https://doi.org/10.1140/epjp/s13360-021-02288-w</a>	January 2022
JOURNAL PAPER (International)	Electric field modified quantum entropic measures of particle in a spherical box	The European Physical Journal Plus	Brijender Dahiya, Kirtee Kumar, Vinod Prasad (Joint Author)	<a href="https://doi.org/10.1140/epjp/s13360-021-02041-3">https://doi.org/10.1140/epjp/s13360-021-02041-3</a>	October 2021
JOURNAL PAPER (International)	Entropic measures of an atom confined in modified Hulthen potential	Results in Physics	Kirtee Kumar, Vinod Prasad (First Author, Corresponding Author)	<a href="https://doi.org/10.1016/j.rinp.2020.103796">https://doi.org/10.1016/j.rinp.2020.103796</a>	January 2021

CONFERENCE PAPER/ PROCEEDINGS (International)	Confined two-dimensional hydrogen atom in magnetic field	AIP Conference Proceedings	Kirtee Kumar, Shalini Lumb Talwar, Sonia Lumb, Vinod Prasad (First Author, Corresponding Author)	<a href="https://doi.org/10.1063/5.0001870">https://doi.org/10.1063/5.0001870</a>	May 2020
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## 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	FACULTY INDUCTION PROGRAM ATTENDED	ASSISTANT PROFESSOR	National	4-Week Faculty Induction/Orientation Programme for "Faculty in Universities/Colleges/Institutes of Higher Education"	21.Nov.2022 - 20.Dec.2022
2023	REFRESHER COURSE ATTENDED	ASSISTANT PROFESSOR	National	15 days Online National Refresher Course on "Python: Essentials, Programming and Analytics & Visual Communication, Photography, Graphic Design & Animation and Digital Film Production"	27.Oct.2022 - 11.Nov.2022
2025	FACULTY DEVELOPMENT PROGRAM ATTENDED	ASSISTANT PROFESSOR	National	NEP 2020 ORIENTATION & SENSITIZATION PROGRAMME	14.Feb.2025 - 22.Feb.2025

**Dr. KIRTEE KUMAR**