



# Kirori Mal College

(University of Delhi)

University of Delhi, Delhi-110007

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



Print Date : 11-04-2026

## 1. Personal Profile

Title: **Dr.** First Name: **ARTI** Last Name: .

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

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

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



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

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

Youtube: ----- Research Gate Link: <https://www.researchgate.net/profile/Arti-Chauhan-2>

Google Scholar Link: <https://scholar.google.com/citations?user=-3omIYMAAAAJ&hl=en>

Address: -----

## 2. Educational Qualifications

Degree/ Certification	Institution	Year
M.Sc (Physics)	Guru Nanak Dev University Amritsar	2011
B.Sc (H) Physics	Guru Nanak Dev University Amritsar	2009
M.Sc PHYSICS	GNDU AMRITSAR	2011
B.Sc (Hons.) Physics	GNDU AMRITSAR	2009
Ph.d	Deaprtment of Physics and Astrophysics University of Delhi	2024

## 3. Career Profile & Administrative Assignments

Category	Role/ Designation	Department/ Committee	Date From - To	Remarks
CAREER PROFILE	ASSISTANT PROFESSOR	PHYSICS Kirori Mal College University of Delhi	23.Jul.2012 - Till date	
ADMINISTRATIVE ASSIGNMENTS	CONVENER	OTHERS Kirori Mal College University of Delhi	01.Jan.2021 - 18.May.2023	Convenor of Physics Seminar committee (Tachyons)

ADMINISTRATIVE ASSIGNMENTS	MEMBER	THE PLAYERS – THE THEATRE SOCIETY Kirori Mal College University of Delhi	01.Jul.2023 - 30.Jun.2024	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	FOREIGN STUDENTS' COMMITTEE Kirori Mal College University of Delhi	01.Jul.2023 - 30.Jun.2024	
CAREER PROFILE	ASSISTANT PROFESSOR	PHYSICS Kiirori Mal College	23.Jul.2012 - Till date	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	FEE CONCESSION COMMITTEE Kiirori Mal College	01.Jul.2023 - 30.Jun.2024	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	PHYSICS Kiirori Mal College	01.Jul.2023 - 30.Jun.2024	Time Table Committee in Physics Department
ADMINISTRATIVE ASSIGNMENTS	MEMBER	PHYSICS Kiirori Mal College	01.Jul.2023 - 30.Jun.2024	Physics Seminar Society
ADMINISTRATIVE ASSIGNMENTS	MEMBER	PHYSICS Kiirori Mal College	01.Jul.2023 - 30.Jun.2024	Physics Robotics Club
ADMINISTRATIVE ASSIGNMENTS	MEMBER	ROBOTICS Kiirori Mal College	01.Jun.2023 - 30.Jun.2024	

#### 4. Other Profiles

##### Other Profile Name/ Description

##### SUBJECTS TAUGHT

**1. Mechanics**

**2. Thermal Physics**

**3. Waves and Optics**

**4. Mathematical Physics**

**5. Electricity and Magnetism**

**6. Elements of Modern Physics**

**7. Solid state Physics**

**8. Vedic Maths**

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##### AREAS OF INTEREST/ SPECIALIZATION

Experimental Condensed matter Physics (Material Science)

1. Photovoltaic applications and
2. Photocatalytic applications

## FIELD TRIPS ORGANIZED

Field trip to

1. Manali (2018)
2. Nainital (2019)
3. Rishikesh (2022)

## 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	Publi (Month Year)
JOURNAL PAPER (International)	Improved ferroelectric, magnetic and photovoltaic properties of Pr doped multiferroic bismuth ferrites for photovoltaic application.	Results in Physics(Elsevier)	Arti, Sumit Kumar, Parveen Kumar, Rajan Walia and Vivek Verma (First Author)	<a href="https://doi.org/10.1016/j.rinp.2019.102403">https://doi.org/10.1016/j.rinp.2019.102403</a>	May 2019
JOURNAL PAPER (International)	Improvement in photovoltaic response of bismuth ferrite by tuning its ferroelectric and band-gap properties.	Journal of Materials Science: Materials in Electronics (Springer)	Arti, Reema Gupta, Renuka Bakolia and Vivek Verma (First Author)	<a href="https://doi.org/10.1007/s10854-020-04925-z">https://doi.org/10.1007/s10854-020-04925-z</a>	Novem 2020
JOURNAL PAPER (International)	Modification in photovoltaic and photocatalytic properties of bismuth ferrites by tailoring band-gap and ferroelectric properties.	Journal of Alloys and Compounds	Arti, Reema Gupta, S.P. Singh, Rajan Walia, Vinod Kumar, Vivek Verma (First Author)	<a href="https://doi.org/10.1016/j.jallcom.2022.164602">https://doi.org/10.1016/j.jallcom.2022.164602</a>	March 2022

JOURNAL PAPER (International)	Alkali (Na, K) doped SnO <sub>2</sub> : An investigation on the role of microstructure on electricity generation of oxide based ceramic hydroelectric cells	Inorganic Chemistry Communications	Kumar, Parveen & Kumar, Sumit & Chauhan, Arti & Singh, Adarsh & Singh, Neelam & Verma, Vivek. (Joint Author)	<a href="http://dx.doi.org/10.1016/j.inoche.2022.110115">http://dx.doi.org/10.1016/j.inoche.2022.110115</a>	November 2023
JOURNAL PAPER (International)	Modified Magnetic and Electrical Properties of Perovskite-Spinel Multiferroic Composites	Journal of Superconductivity and Novel Magnetism	Jarnail S. Bangruwa, Sumit Kumar, Arti Chauhan, Parveen Kumar, Vivek Verma (Joint Author)	<a href="https://doi.org/10.1007/s10948-018-4986-z">https://doi.org/10.1007/s10948-018-4986-z</a>	November 2018
JOURNAL PAPER (International)	Ferrites: magnetic materials as an alternate source of green electrical energy	Heliyon 5 (2019) e01151	Pranati Kharbanda , Tushar Madaan , Isha Sharma , Shruti Vashishtha , Parveen Kumar , Arti Chauhan, Sumit Mittal, Jarnail S. Bangruwa, Vivek Verma (Joint Author)	doi: 10.1016/j.heliyon.2019. e01151	January 2019
JOURNAL PAPER (International)	Steady microwave absorption behavior of two-dimensional metal carbide MXene and Polyaniline composite in X-band	Journal of Magnetism and Magnetic Materials	Sumit Kumar, Arti, Parveen Kumar, Nidhi Singh, Vivek Verma. (Joint Author)	<a href="https://doi.org/10.1016/j.jmmm.2019.165364">https://doi.org/10.1016/j.jmmm.2019.165364</a>	May 2019
JOURNAL PAPER (International)	Enhanced photovoltaic and sunlight-driven photocatalysis for water purification study of rare earth and transition element doped bismuth ferrites	Applied Physics A	Arti, Reema Gupta, Neelam Singh, Manish Kumar Kansal, Vivek Verma (First Author)	<a href="https://doi.org/10.1007/s00339-023-06928-z">https://doi.org/10.1007/s00339-023-06928-z</a>	July 2023

CONFERENCE PAPER/ PROCEEDINGS (International)	Structural, Magnetic and Optical Study of Transition Element Doped Bismuth Ferrite	Proceedings of the International Conference on Atomic, Molecular, Optical & Nano Physics with Applications, Springer Proceedings in Physics 271	Arti, Anahat, Sumit Kumar, P. Kumar, and Vivek Verma (First Author)	<a href="https://doi.org/10.1007/978-981-16-7691-8_24">https://doi.org/10.1007/978-981-16-7691-8_24</a>	March 2022
CONFERENCE PAPER/ PROCEEDINGS (International)	Safe, Efficient and Portable Power Generation in Oxide Based Hydroelectric Cells by Water Splitting	Springer Nature Singapore Pte Ltd. 2022	Parveen Kumar, Sumit Kumar, Arti, and Vivek Verma (Joint Author)	<a href="https://doi.org/10.1007/978-981-16-7691-8_40">https://doi.org/10.1007/978-981-16-7691-8_40</a>	March 2022

## 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
2020	FACULTY DEVELOPMENT PROGRAM ATTENDED	PARTICIPANT	National	"Open-Source Tools for Research" from June 08 - June 14, 2020 conducted by Ramanujan college university of Delhi	08.Jun.2020 - 14.Jun.2020
2020	FACULTY DEVELOPMENT PROGRAM ATTENDED	PARTICIPANT	National	2. Two Weeks Faculty Development Programme on "ADVANCED CONCEPTS FOR DEVELOPING MOOCS"	02.Aug.2020 - 17.Jul.2020
2021	FACULTY DEVELOPMENT PROGRAM ATTENDED	PARTICIPANT	National	3. One Week (Online) International Faculty Development programme on "Materials Characterization: Experimental and Theoretical Aspects"	20.Sep.2021 - 24.Sep.2021
2021	FACULTY DEVELOPMENT PROGRAM ATTENDED	PARTICIPANT	National	4. 5-day Online Faculty Development Program on "PROGRAMMING IN PYTHON"	06.Jan.2022 - 10.Dec.2021
2021	REFRESHER COURSE ATTENDED	PARTICIPANT	National	5. Online Two-week Refresher Programme in Physics	27.Oct.2021 - 10.Nov.2021
2022	REFRESHER COURSE ATTENDED	PARTICIPANT	National	Two-Week Refresher Course On "Managing Online Classes & Co- creating MOOCS 21.0"	07.Dec.2022 - 21.Dec.2022

2018	WORKSHOP/ SEMINAR/ CONFERENCE ATTENDED	PARTICIPANT	International	Paper presented (Oral) entitled "Improved ferroelectric, magnetic and photovoltaic properties of Pr doped multiferroic bismuth ferrites for photovoltaic application" at International Conference	17.Dec.2018 - 20.Dec.2018
2019	WORKSHOP/ SEMINAR/ CONFERENCE ATTENDED	PARTICIPANT	National	International Conference on Atomic, Molecular, Optical and Nano-Physics with Applications	18.Dec.2019 - 20.Dec.2019
2017	WORKSHOP/ SEMINAR/ CONFERENCE ATTENDED	PARTICIPANT	National	National workshop on nanotechnology : Emerging frontiers and applications.	30.Jan.2017 - 31.Jan.2017
2020	WORKSHOP/ SEMINAR/ CONFERENCE ATTENDED	PARTICIPANT	International	Conference Entitled " Empowering Methodologies in Indian Management Research	16.Dec.2019 - 17.Dec.2019
2024	FACULTY DEVELOPMENT PROGRAM ATTENDED	CO- CONVENER	University	3. One Week (Online) International Faculty Development programme on "Materials Characterization: Experimental and Theoretical Aspects"	07.May.2024 - 16.May.2024

**Dr. ARTI .**