



Kirori Mal College

(University of Delhi)

University of Delhi, Delhi-110007

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



Print Date : 15-02-2026

1. Personal Profile

Title: **Dr.** First Name: **ROSHAN** Last Name: **KSHETRIMAYUM**

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

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

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



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

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

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

Google Scholar Link: -----

Address: -----

2. Educational Qualifications

Degree/ Certification	Institution	Year
M.Sc.	University of Delhi	2001
Ph.D	University of Delhi	2010
M.Sc PHYSICS	HINDU COLLEGE, UNIVERSITY OF DELHI	2001
Ph.D	University of Delhi	2010

3. Career Profile & Administrative Assignments

Category	Role/ Designation	Department/ Committee	Date From - To	Remarks
CAREER PROFILE	ASSISTANT PROFESSOR	PHYSICS HINDU COLLEGE, DELHI	01.Sep.2003 - 31.Dec.2003	Adhoc
CAREER PROFILE	ASSISTANT PROFESSOR	PHYSICS KIRORI MAL COLLEGE, DELHI	25.Aug.2004 - 18.Apr.2018	
CAREER PROFILE	ASSOCIATE PROFESSOR	PHYSICS KIRORI MAL COLLEGE, DELHI	19.Apr.2018 - Till date	

ADMINISTRATIVE ASSIGNMENTS	CONVENER	PHYSICS KIRORI MAL COLLEGE, DELHI	20.May.2023 - 20.May.2024	Purchase Committee
ADMINISTRATIVE ASSIGNMENTS	CONVENER	PHYSICS KIRORI MAL COLLEGE, DELHI	01.Jul.2020 - 01.Jun.2022	Library Committee, Physics Department
ADMINISTRATIVE ASSIGNMENTS	CONVENER	PHYSICS KIRORI MAL COLLEGE, DELHI	01.Jul.2018 - 01.Jun.2020	Physics Seminar Society
ADMINISTRATIVE ASSIGNMENTS	MEMBER	DEVELOPMENT & MAINTENANCE COMMITTEE KIRORI MAL COLLEGE, DELHI	01.May.2023 - 01.Jun.2024	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	STUDENT UNION ACTIVITIES COMMITTEE KIRORI MAL COLLEGE, DELHI	01.Jun.2021 - 01.Jun.2024	
ADMINISTRATIVE ASSIGNMENTS	CONVENER	PHYSICS Kirori Mal College	01.May.2023 - 01.May.2024	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	DEVELOPMENT & MAINTENANCE COMMITTEE Kirori Mal College	01.Jun.2023 - 01.Jun.2024	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	SPACE INFRASTRUCTURE COMMITTEE Kirori Mal College	01.Jun.2023 - 01.Jun.2024	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	STUDENT UNION ACTIVITIES COMMITTEE Kirori Mal College	01.Jun.2023 - 01.Jun.2024	
ADMINISTRATIVE ASSIGNMENTS	TEACHER-IN-CHARGE	PHYSICS Department of Physics, Kirori Mal College, University of Delhi	01.May.2024 - 30.Apr.2025	Teacher-in-Charge, Department of Physics
ADMINISTRATIVE ASSIGNMENTS	CONVENER	PHYSICS Department of Physics, Kirori Mal College, University of Delhi	01.May.2024 - 30.Apr.2025	Departmental Moderation Committee
ADMINISTRATIVE ASSIGNMENTS	COORDINATOR	PHYSICS Department of Physics, Kirori Mal College	01.May.2021 - 01.Jun.2022	Physics Practical Examination
ADMINISTRATIVE ASSIGNMENTS	MEMBER	STANDING COMMITTEE FOR MONITORING ADMISSIONS Kirori Mal College	01.Jun.2021 - 01.Jun.2022	Member, Standing Committee
ADMINISTRATIVE ASSIGNMENTS	IN-CHARGE	PHYSICS Kirori Mal College, University of Delhi	01.May.2024 - 30.Apr.2025	Admission-in-Charge
ADMINISTRATIVE ASSIGNMENTS	MEMBER	PHYSICS Kirori Mal College, University of Delhi	01.May.2024 - 30.Apr.2025	KMC Astro Club
ADMINISTRATIVE ASSIGNMENTS	MEMBER	DEVELOPMENT & MAINTENANCE COMMITTEE Kirori Mal College, Univeristy of Delhi	01.Jul.2024 - 30.Jun.2025	Development and Maintenance Committee, Kirori Mal College

ADMINISTRATIVE ASSIGNMENTS	MEMBER	SPACE INFRASTRUCTURE COMMITTEE Kirori Mal College, University of Delhi	01.Jul.2024 - 30.Jun.2025	Space Infrastructure Committee, Kirori Mal College
ADMINISTRATIVE ASSIGNMENTS	MEMBER	PROCTOR & DISCIPLINE COMMITTEE Kirori Mal College, Univeristy of Delhi	01.Jul.2024 - 30.Jun.2025	Proctor and Discipline Committee, Kirori Mal College as Physics Department Teacher-in-Charge
ADMINISTRATIVE ASSIGNMENTS	TEACHER-IN-CHARGE	PHYSICS Kirori Mal College, University of Delhi	01.May.2024 - 30.Apr.2025	
ADMINISTRATIVE ASSIGNMENTS	IN-CHARGE	PHYSICS Kirori Mal College, University of Delhi	01.May.2024 - 30.Apr.2025	Admission-in-Charge (as Teacher-in-Charge) for the academic session 2024-2025 for the Department of Physics, Kirori Mal College, University of Delhi
ADMINISTRATIVE ASSIGNMENTS	IN-CHARGE	PHYSICS Kirori Mal College, University of Delhi	01.May.2024 - 30.Apr.2025	Department-Wise Moderation Committee Convener (as Teacher-in-Charge) for the Department of Physics, Kirori Mal College, University of Delhi

4. Other Profiles

Other Profile Name/ Description

AREAS OF INTEREST/ SPECIALIZATION

Quantum Mechanics

SUBJECTS TAUGHT

Quantum Mechanics, Mechanics, Waves and Oscillations, Electricity and Magnetism

SYLLABUS FORMATION

LOCF (CBCS) Undergraduate Physics courses revision 2019

AREAS OF INTEREST/ SPECIALIZATION

Electronics

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)	Fabrication of surface acoustic wave based wireless NO2 gas sensor	Surface & Coatings Technology	Lokesh Rana, Reema Gupta, Roshan Kshetrimayum, Monika Tomar, and Vinay Gupta (Joint Author)		June 2018
JOURNAL PAPER (International)	Effects of the set phase position on the response of a SAW resonator oscillator based chemical sensor	IEEE Sensors Journal	Roshan Kshetrimayum (Sole Author)		May 2013
JOURNAL PAPER (International)	Coupling-of-Modes analysis and modeling of polymer-coated Surface Acoustic Wave resonators for chemical sensors	IEEE Trans. Ultrason. Ferroelect. Freq. Control.	Roshan Kshetrimayum (Sole Author)		August 2012
JOURNAL PAPER (International)	Modeling electrical response of polymer-coated SAW resonators by equivalent circuit representation	Ultrasonics	Roshan Kshetrimayum, R. P. Tandon and R. D. S. Yadava (First Author)		December 2010
JOURNAL PAPER (International)	Mass sensitivity analysis and designing of surface acoustic wave resonators for chemical sensors	Measurement Science and Technology	Roshan Kshetrimayum, R. D. S. Yadava and R. P. Tandon (First Author)		March 2009
JOURNAL PAPER (International)	SAW Interdigital Transducer Designs for Multifrequency Oscillators and Sensors	Journal of Pure and Applied Ultrasonics	Roshan Kshetrimayum, Mamta Khaneja, R.P. Tandon and R. D. S. Yadava (First Author)		March 2007
JOURNAL PAPER (International)	Dependence of Surface Acoustic Wave Resonator Chemical Sensor Response on the Location of Surface Perturbations	IEEE Sensors Journal	Roshan Kshetrimayum (Sole Author)	10.1109/JSEN.2024.3440212	October 2024

CONFERENCE PAPER/ PROCEEDINGS (International)	Multifrequency characterization of viscoelastic polymers and vapor sensing based on SAW oscillators	Ultrasonics	R. D. S. Yadava, Roshan Kshetrimayum and Mamta Khaneja (Joint Author)		April 2009
CHAPTER (International)	Piezoelectric Crystals for Surface Acoustic Wave (SAW) Devices and Sensors Applications	Macmillan India Ltd.	Roshan Kshetrimayum, R. P. Tandon and R. D. S. Yadava (First Author)		September 2007

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
2022	FACULTY DEVELOPMENT PROGRAM ATTENDED	PARTICIPANT	University	Environmental and Public Health	01.Feb.2022 - 05.Feb.2022
2022	ONLINE CERTIFICATE COURSE/ TRAINING PROGRAMS ATTENDED	PARTICIPANT	National	Online Lecture Series on NEP 2020	19.Feb.2022 - 02.Apr.2022
2021	WORKSHOP/ SEMINAR/ CONFERENCE ATTENDED	PARTICIPANT	National	Online National Workshop	23.Jan.2021 - 25.Jan.2021
2021	REFRESHER COURSE ATTENDED	PARTICIPANT	University	Refresher Course in Physics	04.Nov.2021 - 18.Nov.2021
2021	FACULTY DEVELOPMENT PROGRAM ATTENDED	PARTICIPANT	University	Programming in Python	06.Dec.2021 - 10.Dec.2021
2020	FACULTY DEVELOPMENT PROGRAM ATTENDED	PARTICIPANT	National	ENHANCING PSYCHOLOGICAL SKILLS FOR TEACHING & PRACTICE	15.Sep.2020 - 29.Sep.2020
2020	FACULTY DEVELOPMENT PROGRAM ATTENDED	PARTICIPANT	National	RESEARCH METHODOLOGY	01.Oct.2020 - 15.Oct.2020

Dr. ROSHAN KSHETRIMAYUM