



# Kirori Mal College

(University of Delhi)

University of Delhi, Delhi-110007

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



Print Date : 03-04-2026

## 1. Personal Profile

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

Designation: **PROFESSOR** Mobile No. **9818901344**

Phone No. (Office) **9868283466** Phone No. (Residence): -----

Email: **chembio005@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 Chemistry Hons<br>Chemistry | Kirori Mal College, University of Delhi, Delhi                                    | 1999 |
| M.Sc Chemistry                   | Kirori Mal College, University of Delhi, Delhi                                    | 2001 |
| Ph.D                             | Dr.B.R.Ambedkar Center for Biomedical Research, University of Delhi, Delhi-110007 | 2005 |

## 3. Career Profile & Administrative Assignments

| Category                   | Role/ Designation | Department/ Committee                                | Date From - To          | Remarks |
|----------------------------|-------------------|--|-------------------------|---------|
| ADMINISTRATIVE ASSIGNMENTS | CONVENER          | GYM COMMITTEE Kirori Mal College University of Delhi | 05.May.2020 - Till date | NA      |

## 4. Other Profiles

Other Profile Name/ Description



# KIRORI MAL COLLEGE

(University of Delhi) Delhi-110007

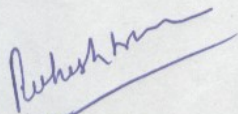
## किरोड़ीमल महाविद्यालय

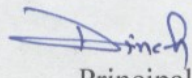
( दिल्ली विश्वविद्यालय ) दिल्ली-११०००७

Tel. : 276678  
दूरभाष : २७६६७८

The following students of UG and PG courses has done their research training under the guidance of Dr.Rupesh Kumar in last 4 yrs with permission of Principal of Kirori Mal College.

| S.No. | Name of Students    | Year of training | Course  | Permission (Yes/No.) |
|-------|---------------------|------------------|---|----------------------|
| 1.    | Priyanka Dutta      | 2014-15          | M.Sc Chemistry<br>Agra University                       | Yes                  |
| 2.    | Umisha              | 2014-15          | B.Sc Chemistry completed<br>KMC D.U.                    | Yes                  |
| 3.    | Shivani Arora       | 2016-17          | B.Sc. Chemistry II <sup>nd</sup> Year<br>KMC D.U.       | Yes                  |
| 4.    | Nishi Agarwal       | 2016-17          | B.Sc. Chemistry II <sup>nd</sup> Year<br>KMC D.U.       | Yes                  |
| 5.    | Siddarth Sharma     | 2016-17          | B.Sc. Chemistry IInd Year<br>KMC D.U.                   | Yes                  |
| 6.    | Shilipa Oberoi      | 2013             | B.Sc Prog.Completed<br>KMC D.U.                         | Yes                  |
| 7.    | Sanky Chaudhary     | 2015             | M.Sc.Chemistry Amity Uni.                               | Yes                  |
| 8.    | Deepak Kumar Patel  | 2015-16          | B.Sc (H). Chem 2 <sup>nd</sup> Yr<br>KMC D.U.           | Yes                  |
| 9.    | Sapna Kumari        | 2015-16          | B.Sc (H). Chem 2 <sup>nd</sup> Yr<br>KMC D.U.           | Yes                  |
| 10.   | Deepika             | 2015-16          | B.Sc .Physical Science 2 <sup>rd</sup> Yr<br>KMC D.U.   | Yes                  |
| 11.   | Poonam Pal          | 2015-16          | B.Sc (H). Zoology 2 <sup>nd</sup> Yr<br>KMC D.U.        | Yes                  |
| 12.   | Mrityunjay Pandey   | 2015-16          | B.Sc (H). Chem 2 <sup>nd</sup> yr<br>KMC D.U.           | Yes                  |
| 13.   | T.Pradeep Sharma    | 2015-16          | B.Sc(H) Botany 2 <sup>nd</sup> Yr<br>KMC D.U.           | Yes                  |
| 14.   | Riya Dhaiya         | 2015-16          | B.Sc(H) Botany 2 <sup>nd</sup> Yr<br>KMC D.U.           | Yes                  |
| 15.   | Sambhawna Chaudhary | 2015-16          | B.A(H) Geography 1 <sup>st</sup> Yr<br>KMC D.U.KMC D.U. | Yes                  |
| 16.   | Anamika Adhikari    | 2015-16          | B.A(H) Geography 1 <sup>st</sup> Yr<br>KMC D.U.         | Yes                  |
| 17.   | Kritika Jha         | 2015-16          | B.Sc (H). Chem 1 <sup>st</sup> Yr<br>KMC D.U.           | Yes                  |

  
Dr.Rupesh Kumar  
Assistant Professor  
Kirori Mal College,  
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Principal  
(Dr. Dinesh Khattar)  
Offg. Principal  
Kirori Mal College  
(University of Delhi)  
Delhi - 110 007



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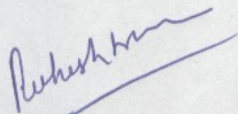
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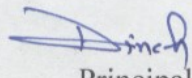
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| 12.   | Mrityunjay Pandey   | 2015-16          | B.Sc (H). Chem 2 <sup>nd</sup> yr<br>KMC D.U.           | Yes                  |
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| 15.   | Sambhawna Chaudhary | 2015-16          | B.A(H) Geography 1 <sup>st</sup> Yr<br>KMC D.U.KMC D.U. | Yes                  |
| 16.   | Anamika Adhikari    | 2015-16          | B.A(H) Geography 1 <sup>st</sup> Yr<br>KMC D.U.         | Yes                  |
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(Dr. Dinesh Khattar)  
Offg. Principal  
Kirori Mal College  
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Delhi - 110 007

**MEMBERSHIPS IN ACADEMIC/ PROFESSIONAL BODIES**

Executive member of Indian Society of Analytical Scientists-Delhi Chapter (ISAS-DC)

**AREAS OF INTEREST/ SPECIALIZATION**

- 1.Organic Chemistry
- 2.Green Chemistry
- 3.Nanotechnology

**SUBJECTS TAUGHT**

Time table July-August 2023

**SUBJECTS TAUGHT**

Jan 2024 time table

**5. Research Guidance**

| Year | Guide For | Title of the Dissertation/ Thesis   | Scholar Name             | Status   |
|------|-----------|---|--------------------------|----------|
| 2023 | Ph. D.    | Development of Sustainable Catalytic Methodologiesfor Condensation Reactions:C-C and C-N bond formation | Mr.LOVENEESH             | Awarded  |
| 2004 | Ph. D.    | Design and Development of Molecular Probes for imaging Techniques                                       | Miss. VISHAKHA CHAUDHARY | Pursuing |
| 2027 | Ph. D.    | Effect of Radiation on materials  | Mr.Vivek Kumar           | Pursuing |

**6. Research Projects**

| Year | Title of Project   | Sponsorship Agency  | Duration  | Amount Sanctioned | Date of Sanction |
|------|--|---|-----------|-------------------|------------------|
| 2006 | Polymeric Palladium Nanoparticles as Recoverable Catalysts for Substitution and Condensation Reactions.      | Project funded by D.S.T. under the SERC fast track proposal for young scientist (in Chemical Sciences).   | 36 months | 18 Lakhs          | 01.Apr.2007      |
| 2012 | Development of Microbial System in Combination of Metal-Accumulating Plants to Remediate Contaminated Sites. | Project funded by D.S.T. under the SERC fast track proposal for young scientist (in Biological Sciences). | 36 months | Rs 15,76,000      | 14.Dec.2012      |
| 2015 | UGC-BSR start up grant for assistant Professor   | UGC start up Grant  | 24 months | 6 Lakhs           | 18.Nov.2023      |

|      |   |                     |           |         |             |
|------|---|---------------------|-----------|---------|-------------|
| 2023 | Preparation of Biocompatible Palladium- Noscapine Nanoparticles for Cancer Therapy : A green approach | University of Delhi | 12 months | 4 Lakhs | 31.Aug.2015 |
|------|---|---------------------|-----------|---------|-------------|

## 7. Publications

| Category                      | Publication Name   | Title                            | Name of Author   | Reference Link/ DOI Link  | Publication (Month-Year) |
|-------------------------------|--|----------------------------------|--|---|--------------------------|
| JOURNAL PAPER (International) | 1. Cu- nanoparticles: a chemoselective catalyst for the aza-Michael reactions of N-alkyl- and N-aryl piperazines with acrylonitrile. | Tetrahedron Letters              | Akhilesh K. Verma, Rupesh Kumar, Preeti Chaudhary, Amit Saxena, Ravi Shankar, Subho Mozumdar and Ramesh Chandra (Joint Author)                   | <a href="https://doi.org/10.1016/j.tetlet.2005.05.108">https://doi.org/10.1016/j.tetlet.2005.05.108</a> | June 2005                |
| JOURNAL PAPER (International) | Synthesis and antimicrobial activity of N-alkyl and N-aryl piperazine derivatives.   | Bioorganic & Medicinal Chemistry | Preeti Chaudhary, Rupesh Kumar, Akhilesh K. Verma, Devender Singh, Vibha Yadav, Anil K. Chhillar, G. L. Sharma and Ramesh Chandra (Joint Author) | <a href="https://doi.org/10.1016/j.bmc.2005.10.032">https://doi.org/10.1016/j.bmc.2005.10.032</a>       | November 2006            |
| JOURNAL PAPER (International) | Polyethylene glycol as a non-ionic liquid solvent for Michael addition reaction of amines to conjugated alkenes.                     | Green Chemistry                  | Rupesh Kumar, Preeti Chaudhary, Surendra Nimesh and Ramesh Chandra (First Author)  | <a href="https://doi.org/10.1039/B517397C">https://doi.org/10.1039/B517397C</a>                         | February 2006            |

|                               |  |   |  |   |                |
|-------------------------------|--|---|--|---|----------------|
| JOURNAL PAPER (International) | An efficient synthesis of 1, 5-benzodiazepine derivatives catalyzed by silver nitrate.                                   | Green Chemistry   | Rupesh Kumar, Preeti Chaudhary, Surendra Nimesh, Akhilesh K. Verma and Ramesh Chandra (First Author) | DOI <a href="https://doi.org/10.1039/B601993E">https://doi.org/10.1039/B601993E</a> | May 2006       |
| JOURNAL PAPER (International) | Synthesis, characterization and in vitro biological studies of novel cyano derivatives of N-alkyl and N-aryl piperazine. | European Journal of Medicinal Chemistry   | Preeti Chaudhary, Surendra Nimesh, Veena Yadav, Akhilesh Kr. Verma, Rupesh Kumar *                   | (Corresponding Author)  | November 2007  |
| JOURNAL PAPER (International) | Triton X-100: Green media for aza and thia-Michael addition.   | Asian Journal of Chemistry Vol.21, No.7 (2009), 5591-5597                       | Veena Yadav, Rekha Lagarkha and Rupesh Kumar*  | (Corresponding Author)  | April 2009     |
| JOURNAL PAPER (International) | Catalytic Reduction of Nitroarenes with Polymeric Palladium Nanoparticles  | Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry. | Rupesh Kumar,* Veena Yadav, Shweta Gupta, Rekha Lagarkha and Harish Chandra                          | (Corresponding Author)  | February 2011  |
| JOURNAL PAPER (International) | Polymeric PEG35k-Pd nanoparticles: efficient and recyclable catalyst for reduction of nitro compounds                    | Synthetic Communication   | Veena Yadav, Shweta Gupta, Rekha Lagarkha and Rupesh Kumar,*   | (Corresponding Author)  | September 2012 |
| JOURNAL PAPER (International) | Green Methodology for Preparation of Disulphide  | Green Chemistry Letters and Reviews   | Pankaj Attri, Shweta Gupta and Rupesh Kumar,*  | (Corresponding Author)  | June 2011      |

|                               |  |                                  |  |                |
|-------------------------------|--|----------------------------------|--|----------------|
| JOURNAL PAPER (International) | Development of bioactive 2-substituted benzimidazole derivatives using an MnOx/HT nanocomposite catalyst   | Dalton Transactions              | Loveneesh Kumar, Nishant Verma, Ravi Tomar, Hitesh Sehrawat, Rupesh Kumar* and Ramesh Chandra (Corresponding Author)                                 | November 2023  |
| JOURNAL PAPER (International) | Microwave-assisted catalyst-free multicomponent one-pot green synthesis of highly functionalized aminocyanopyridines and (4-hydroxy)quinolines in aqueous medium and its in silico studies | New Journal of Chemistry         | Loveneesh Kumar, Nishant Verma, Neeraj Kumar, Hitesh Sehrawat, Rupesh Kumar and Ramesh Chandra (Corresponding Author)                                | September 2022 |
| JOURNAL PAPER (International) | Successive oxidation–condensation reactions using a multifunctional gold-supported nanocomposite (Au/MgCe–HDO)   | New Journal of Chemistry         | Loveneesh Kumar, Nishant Verma, Hitesh Sehrawat, Ravi tomar, Rupesh Kumar and Ramesh Chandra (Corresponding Author)                                  | January 2022   |
| JOURNAL PAPER (International) | Design, Development and Bio-evaluation of a novel radio-ligand Tc-THQ-DTPA as a sigma 2 receptor specific breast tumor imaging agent   | Bioorganic & Medicinal Chemistry | Vishakha Chaudhary , Shubhra Chaturvedi , Anju Wadhwa , Ritika Chaudhary , Divya Gautam , Deepika Sharma , Rupesh Kumar , A.K. Mishra (Joint Author) | December 2023  |

## 8. Books

| Category | Book Name | Title | Name of Author | ISSN/ ISBN Number |
|----------|-----------|-------|----------------|-------------------|
|----------|-----------|-------|----------------|-------------------|

## 9. Faculty Achievements

| <b>Year</b> | <b>Category of Achievement</b>                                  | <b>Role</b>         | <b>National/ International etc.</b> | <b>Name</b>   | <b>Date From-To</b>       |
|-------------|---|---------------------|-------------------------------------|---|---------------------------|
| 2022        | WORKSHOP/ SEMINAR/ CONFERENCE ATTENDED                          | ASSOCIATE PROFESSOR | National                            | National Conference on Frontiers in Chemical Sciences (NCFCS) Nov 04-05, 2022 at Central University of Dharmshala HP                      | 04.Nov.2022 - 05.Nov.2022 |
| 2023        | WORKSHOP/ SEMINAR/ CONFERENCE ATTENDED                          | ASSOCIATE PROFESSOR | National                            | Science for Society & Sustainability in the Light of NEP - 2020 (SSSNEP - 2023) Aggarwal College, Ballabgarh Faridabad (HR)               | 12.May.2023 - 13.May.2023 |
| 2019        | INVITED LECTURES/ RESOURCE PERSON/ PAPER PRESENTATIONS ATTENDED | ASSISTANT PROFESSOR | National                            | National symposium on microbes and nanotechnology for sustainable environment by department of Botany Kirori mal college Delhi University | 07.Feb.2019 - 07.Feb.2019 |

**Dr. RUPESH KUMAR**