



**DESHBANDHU COLLEGE**  
**(UNIVERSITY OF DELHI)**  
**KALKAJI, NEW DELHI - 110019**  
**Faculty Details Proforma for College Website**

|  |  |            |             |           |               |            |
|--|--|------------|-------------|-----------|---------------|------------|
| Title  | <b>Prof.</b>   | First Name | <b>Ruby</b> | Last Name | <b>Mishra</b> | Photograph |
| Designation  | <b>Professor</b>   |            |             |           |               |            |
| Address  | Kautilya Apartments, DDA MIG FLATS NO. 28<br>Pocket -B, Phase -2, Sector-14, Dwarka New<br>Delhi -110075 |            |             |           |               |            |
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| Email/Web-Page   | <i>rmishra@db.du.ac.in</i><br><i>rubymishradu@gmail.com</i>  |            |             |           |               |            |
| Educational Qualifications   |  |            |             |           |               |            |
| Degree   | Institution  |            |             |           | Year          |            |
| Ph.D.  | University of Delhi  |            |             |           | <b>2005</b>   |            |
| PG   | University of Delhi  |            |             |           | <b>2001</b>   |            |
| UG   | University of Delhi  |            |             |           | <b>1999</b>   |            |
| Career Profile   |  |            |             |           |               |            |
| <ul style="list-style-type: none"><li>• <b>Professor</b> at Deshbandhu College, University of Delhi (19th Nov 2021 till date).</li><li>• <b>Associate Professor</b> at Deshbandhu College, University of Delhi (19th Nov 2018 – 18th Nov 2021).</li><li>• <b>Assistant Professor</b> (Permanent) at Deshbandhu College, University of Delhi (3rd Oct 2008 –18th Nov 2018).</li><li>• Taught as <b>Assistant Professor (Adhoc)</b> in Kirorimal College, University of Delhi (Jan 2005-Nov 2005) and Deshbandhu College, University of Delhi (Sep 2007 to Oct 2008)</li></ul> <p><b>Total teaching experience: 17 years</b></p>   |  |            |             |           |               |            |
| Administrative Assignments   |  |            |             |           |               |            |
| <ol style="list-style-type: none"><li>1. <b>Committee member for preparation of syllabus, books for Indian Knowledge System</b> made by the <b>Hon'ble Vice Chancellor</b> has constituted at dated <b>22.04.2022</b>, with notification <b>Ref. No. Estab.II(i)/010/2022/11/451</b></li><li>2. Program Officer NSS (2020-2022)</li><li>3. Program Coordinator NSS (2018-2020)</li><li>4. Nodal officer for “Ek Bharat Shreshtha Bharat” (Initiative of Ministry of Education, GOI) (Since September 2021) in Deshbandhu college</li><li>5. Convenor, “Nadi ko Jano” (Nationwide campaign by Ministry of Education, GOI) (Since October 2021) in Deshbandhu college</li><li>6. Co-ordinator, “UnnatBhart Abhiyan” (Initiative of Ministry of Education, GOI) (Since July 2021)in Deshbandhu college</li><li>7. Member Secretary -Women Development Cell</li><li>8. Member union advisory committee in the session 2010-11, 2017-18, 2018-19.</li></ol> |  |            |             |           |               |            |

9. Member cultural committee in 2016-17, 2017-2018.
10. Convener of Chemical society "Resonance" and organized annual festival for two consecutive years 2014 –2015 and 2015-2016.

#### Areas of Interest/Specialization

Organic Chemistry and Environmental Chemistry

#### Subjects Taught

Fundamentals of Organic Chemistry and reaction mechanism for BSc (H) and BSc (P) I year and II year students.

#### Thesis Supervision

**Co-Supervisor** of Mr Mahesh Bhardwaj

Thesis Title: "Removal of Heavy Metal Impurity from Industrial Waste Water by using Bio-Adsorbent"

Chief Supervisor: Dr.Priti Gupta and Dr. Sangita Banga

University: Manav Rachna University

**DAC Member** : (Doctoral Advisory Committee Member)

Research Scholar: Mr Anuj Raj Singh

Topic : Assessment of impact of air Pollution on health and Policy intervention:A case study of metro politian cities in India.

Institute: AcSIR

#### Publications Profile

##### **Books:**

1. Written chapter on "Adverse Effects of cosmetics on women's Reproductive Health" in a book on 'Reproductive health in India: Concerns and Awareness' edited by Dr Varsha Baweja and **Dr Ruby Mishra**, ISBN No 978-819346343-7, Enriched publications.
2. Written chapter on" Effects of cosmetics and Perfumes on our health and environment" in a book on Biomedical and Environment **2016** ISBN no-978818030-479-8 by campus Book International.
3. 'Reproductive health in India: Concerns and Awareness' edited by Dr Varsha Baweja and **Dr Ruby Mishra**, ISBN No 978-819346343-7, enriched publications.
4. Pharmaceutical Organic Chemistry, by **Dr RUBY MISHRA** and Prof HemlataM.Nimje ISBN-978-9386232-21-2, Thakur publishers Pune; [www.tppl.org.in](http://www.tppl.org.in)
5. First author in book "Fundamentals of Chemistry", ISBN No -978\_93-5480-149-5(common minimum syllabus as per NEP 2020 For All state Universities of Uttar Pradesh)Thakur Publication, **2021**

6. **Joint author** in the chapter named “Climate Change Impacts on Soil Microorganisms that Regulate Nutrient” in the book *Climate Change and the Microbiome* published by Springer Nature Switzerland **2021**

**Research papers published in Refereed/Peer Reviewed Journals**

1. Multi-omics therapeutic perspective on ACVR1 gene: from genetic alterations to potential targeting, Garima Nagar, Pooja Mittal, Shradheya R R Gupta, Monika Pahuja, Manisha Sanger, Ruby Mishra, Archana Singh, Indrakant Kumar Singh, *Briefings in Functional Genomics*, elac026, <https://doi.org/10.1093/bfgp/elac026>
2. Sustainable Approach for Developing Graphene Based Materials from Natural Resources and BioWastes for Electronic Applications. *ACS Applied Electronic Materials* (Accepted 2022) Jindal, Simram; Anand, Ritesh; Sharma, Niharika; Yadav, Nisha; Mudgal, Deeksha; Mishra, Ruby; Mishra, Vivek. *ACS Applied Electronic Materials* **2022**, 4 (5), 2146-2174.
3. Biodegradable acid based nanocomposite-CuO-ZnO-Ni(OH)<sub>2</sub>/PA: A novel material for water cleansing, Seungdae Oh, Rabia Ahmed, SharfIlahiIlahi Siddiqui, Basem Al Alwan, Mohammed Almesfer, Bushra Fatima, Mohammed Afzal Ansari, Ruby Mishra, Rangnath Ravi, Saif Ali Ali Chaudhry *Journal of Cleaner Production*, **2022**, 341,130860.
4. Solid support Based Synthesis of 1,5-Benzodiazepines: A mini-Review. Ruby Mishra, Atul K Sharma, Varsha Baweja, Poonam Mothsra, Manoj K Singh, Rajesh Kumar, Shyam B Yadav *Synthetic Communications* **2022**, 52, (4), 481-503.
5. Facile Synthesis of Cu-Zn Binary Oxide Coupled Cadmium Tungstate (Cu-ZnBO-Cp-CT) with Enhanced Performance of Dye Adsorption Bushra Fatima, Basem Al Alwan, SharfIlahiSiddiqui, Rabia Ahmad, Mohammed Almesfer, Manoj Kumar Khanna, **Ruby Mishra**, Rangnath Ravi and Seungdae Oh, *Water* 13, 3287, **2021**.
6. Structural, Magnetic, and Optical Properties of Mn<sup>2+</sup> Doping in ZnO Thin Films, Monika Sharma, KakoliBera, **Ruby Mishra** and Alka V. Kuanr, *Surfaces*, 4, 268-278, **2021**.
7. Developing Latent Fingerprints on Wet Surfaces with a Fluorescent Schiff's Base as SPR, K K Arora, Sarita Passey and **Ruby Mishra**, *International Journal of Trend in Scientific Research and Development (IJTSRD)* Volume 5 Issue 6, 2456 – 6470, **2021**.
8. Neuroprotective effects of phytoestrogens: A potential alternative to estrogen therapy in Alzheimer's disease patients Varsha Baweja, Himanshu, Akreti Tandon, Muskan Goyal, **Ruby Mishra**, Manasi Deshpande, *Journal of Geriatric Mental Health*, **2021**
9. K<sub>2</sub>CO<sub>3</sub> – Mediated Regioselective Synthesis of Isoxazoles and Pyrazolines. *Letter in Organic Chemistry*, **2006**, 3, 135-139, M.Kidwai, S.Kukreja, **R.Thakur**.

10. New Solid Supported Synthesis of Thieno [2,3-d] pyrimidine, *Journal of Sulphur Chemistry*, **2006**, 27, 57-63, M.Kidwai, V.Bansal, **R.Thakur**
11. A Facile Synthesis of Substituted Pyridines & Pyrazolo[3,4-b]pyridines, *J. Heterocycl. Chem.*, **2005**, 42, 1181-1188 M.Kidwai, **R.Thakur**, R.Mohan
12. Ecofriendly Synthesis of Novel Antifungal Thiobarbituric Acid / Barbituric Acid Derivatives, *Acta Chemica Solvanica* **2005**, 52, 89-92, M.Kidwai, **R.Thakur**, R.Mohan
13. A Facile Synthesis for Novel Pyrimido[1,3,4]triazepine, *Letter in Organic Chemistry*, **2005**, 2, 136-138 M.Kidwai, K.Singal, **R.Thakur**
14. Ecofriendly Synthesis of Pyridine/Pyrido[2,3-d]pyrimidine derivatives, *Russ Chem. Bull.*, **2005**, 54(6), 1479-1482, M.Kidwai, **R.Thakur**, S.Saxena
15. An Efficient synthesis of 2,4,5-Trisubstituted and 1,2,4,5-Tetrasubstituted-1 H-imidazoles, *Bulletin of The Korean Chemical Society*, **2005**, 26, 2051-2053, M.Kidwai, **R.Thakur**, S.Saxena, S. Rastogi
16. Green Chemistry in Sustainable National Development, *Journal of Indian Chemical Society*, **2005**, 82, 49-57, M.Kidwai, **R.Thakur**.
17. New Route to 2,4,6-Trisubstituted-6H(1,3) Oxazines, *Bull. Chem. Soc. Japan*, **2004**, 77, 2265-2267, M.Kidwai, **R.Thakur**, R.Mohan
18. Ecofriendly Synthesis of Quinazolin-4(3H)-ones *Indian Journal of Chemistry*, **2004**, 43B, 423-425, M.Kidwai, **R.Thakur**, S.Rastogi
19. A Facile Synthesis of Substituted Benzodiazepine using Solid Support, *Chemistry of Heterocyclic Compounds* (Khim. Geterosikl. Soedin.), **2004**, 5, 745-748, M.Kidwai, **R.Thakur**, R.Venketramanan
20. Novel Route to Niementowski Reaction, *Crotica Chemica Acta*, **2003**, 76, 365-369 M.Kidwai, S.Rastogi, R.Mohan, **R.Thakur**
21. Solvent-Free Synthesis of 2,4,6-Triaryl Pyridines, *Zeitschrift Fur Naturforschung, Section B*, **2004**, 59B606-608, Neat Synthesis of 2,4,6-Trisubstituted Pyridines *Zeitschrift Fur Naturforschung, Section B*, **2004**, 59B, 606-608, M.Kidwai, S.Rastogi, **R.Thakur**, S.Saxena

**Research papers published in Conferences/Seminar other than Refereed/Peer Reviewed**

**Conferences Scientific Presentation/participation:**

- 1) International Conference on Natural Products and Human Health -**2020** ICNPHH2020dd
  - a) Synthesis of Fluorescent aromatic agarose-amino acid conjugates: Study of its pH dependent protein-like behavior and interaction with Bovine serum Albumin.

Sharma A.K, **Mishra R**, Prasad K, Siddhanta A.K- ISBN9788194428237- OTH0048-PP125

- b) Bio-degradable adsorbent for waste water remediation. Milhotra A, **Mishra R**, Kumar S and Patel M-ISBN9788194428237-OTH0046-PP124
- c) Potential hidden risks of chemicals present in personal care products (PCPs) on health and Environment **Mishra R**, Kumar R, Giri A-ISBN9788194428237-EP0010-pp35
- 2) International conference on Environmental Challenges and Solutions 31<sup>st</sup> January to 2<sup>nd</sup> February on the topic “Effects of chemicals present in daily care products on environment”.
- 3) Presented research work in Utkarsh 2018 an International Conference Empowering and Enabling Women in Science organized by CSIR-National Environmental Engineering Research Institute (NEERI), Nagpur, Maharashtra on 30<sup>th</sup> and 31<sup>st</sup> October, **2018**.
- 4) Participated in National workshop on Skill Development to build a Clean India organized by CSR, Oil and Natural Gas Corporation Ltd at Deshbandhu College, University of Delhi on 7<sup>th</sup> and 8<sup>th</sup> June, 2018. 5) Presented paper in DBT Sponsored National Conference on Innovations in Sciences in Emerging challenges in Health and Environment (NSHE-2018) organised by Department of Chemistry, Daulat Ram College, University of Delhi, on 20<sup>th</sup> march **2018**.
- 6) Participated in National workshop on Technical Terminology in Science Teaching at Deshbandhu College, University of Delhi on 26<sup>th</sup> and 27<sup>th</sup> October, **2017**.
- 7) National Conference on Environmental Sustainability in Wastewater Remediation: Current Status and Future Prospects (ESWR-2017), Organized by Sri Venkateswara College, University of Delhi. (19<sup>th</sup>-20<sup>th</sup> Jan. **2017**)
- 8) National conference on “Innovations in chemistry laboratory teaching” pp-16, ISBN: 978-1-63535-3617, Enriched publications PVT LTD held on 8<sup>th</sup> and 9<sup>th</sup> February, **2017** (INCLAT), Organized by Zakir Husain Delhi College, University of Delhi.
- 9) International Conference on Advances in Nano-science and Nanotechnology (ICANN2016) on November 4 & 5, **2016**. Organized by Centre for Nano-science and Nanotechnology (CNN), Jamia Millia Islamia, New Delhi
- 10) Presented poster in the National Conference on Combating Industrial pollution for Sustainable Environment –A fusion of Industrial and Scientific Efforts held at Gargi College, University of Delhi on September 22-23, **2016**.
- 11) Presented paper on topic “Adverse effects of cosmetics on human reproductive health” at National

symposium on Reproductive Health in India: Concerns and Awareness, held at Deshbandhu College on February 12, **2016**.

12) Poster presented on topic “Environmentally benign water cleansing technology by using plants” in a National conference on Interdisciplinary approaches in chemical science IACS **2015** held on 16<sup>th</sup> of December **2016** at centre for Interdisciplinary Research in Basic Science, Jamia Millia Islamia New Delhi.

13) Presented Paper in the National Seminar on “Innovative Advance Research in Bio-Medical and Environmental Dynamics” organized by Department of Chemistry Dayal Singh College, University of Delhi on October 9<sup>th</sup> and 10<sup>th</sup> **2015**.

14) Participated in a Training Programme on Technical Terminology and Science teaching organized by terminology at DeenDayal Upadhyaya College, Delhi University on 18<sup>th</sup>, 19<sup>th</sup> September **2015** organized by the commission for scientific and technical terminology (Government of India, MHRD, DHE)

#### Conference Organization/Presentations

1. Organized “National Conference on National Education Policy: Implementation, Challenges, Opportunities and probable Outcomes” organized by Deshbandhu College in association with ICSSR on May 14, **2022**.
2. Chaired the Technical Session-V in Two Days International e-Conference on “Recent Advancements in Chemical Sciences: Health Environment and Society (ICRACS-2022)” organized by Deshbandhu College from 8-9<sup>th</sup> April, **2022**.
3. Organized One Day National Seminar on “Contribution of Indian Scientists in Freedom Struggle” organized by Swami Shraddhanand College in association with Vijanabharati on November 22, **2021**.
4. Presented a paper in One Day National Seminar on “Contribution of Indian Scientists in Freedom Struggle” organized by Swami Shraddhanand College in association with Vijanabharati on November 22, **2021**.
5. Organized “International Conference: Role of Indian in Freedom Movement” organized by JNU in collaboration with Vijanabharati, NIScPR and Vigyan Prasar from February 28-March 1, **2022**.

6. Organized “National Conference of Science Communicators and Science Teachers: Indian Independence Movement and the Role of Science” organized by Vijanabharati, NIScPR and Vigyan Prasar, New Delhi from November 29-30, **2021**.
7. Part of organizing team of International Conference on “Human Rights: National and International Issues and Challenges” organized by Saikshik Foundation and Deshbandhu College.
8. Worked as Rapporteur in a session at International Conference on “Human Rights: National and International Issues and Challenges” organized by Saikshik Foundation and Deshbandhu College.
9. Organized state level camp as college co-ordinator in Vidhyarthi Vigyan Manthan 2019 jointly organized by Deshbandhu College, NCERT, DST and Vigyan Bharti on Sunday, 19th January, **2020**.
10. Delivered talk in a national conference Bharat ka Vigyan main yogdaan at central university of Haryana(CUH) on 5<sup>th</sup> March **2020** on the topic “*Menstruating women and cultural Practices-A scientific View*”
11. Eminent speaker in a session at international conference on the “**Natural products and human health-2020**” on 27<sup>th</sup> - 29<sup>th</sup> 2020 at conference center, University of Delhi on the topic “Potential hidden risks of chemicals present in personal care products (PCP’S) on health and environment”.
12. Invited as a Subject Expert as a part of “International Science festival -2019” held at Biswa Bangla Convention centre, Kolkota, 5<sup>th</sup> to 8<sup>th</sup> November, **2019**.
13. Participated in two days national workshop on science with the lens of scientific-technical terminology 29<sup>th</sup> & 30<sup>th</sup> January **2020** organized by the commission for scientific and technical terminology (Government of India, MHRD, DHE)
14. Worked as teacher Co-ordinator in “India International Science Festival” organized on 5<sup>th</sup> -8<sup>th</sup> October, 2018 at Indira Gandhi Pratisthan, Lucknow.
15. Worked as organizing member in a workshop on skill Development to build a clean India held on



June 7<sup>th</sup> and 8<sup>th</sup> 2018, Organized by Deshbandhu College, Kalkaji, New Delhi.

16. Worked as organizing member in a seminar on topic “Understanding Nationalism “on 11<sup>th</sup> August 2016 organized by extension lecture committee Deshbandhu College.

17. Organized a talk on “National and Moral Duties of teacher” by Shri IndreshJee (National executive Member RSS) and chaired by Shri Umesh Sharma (chairman Governing body DBC) in association with extension lecture committee on 28<sup>th</sup> September 2015.

#### Research Projects (Major Grants/Research Collaboration)

##### **Supervision of Research Project (Summer/Winter/Innovation projects)**

1. Worked as Principal investigators with Dr.KakoliBera and, Dr. Monika Sharma in an innovation project title “Fabrication of Multi-layered Nanostructure and its Applications in Spintronic devices”.
2. Co-supervised at the department of chemistry in a Summer Training project on the topic “Principals of NMR spectroscopy” to the student of applied chemistry of Amity University Noida, from 18<sup>th</sup> may to 25<sup>th</sup> June **2015** (six weeks).

#### Awards and Distinctions

- Life member of Vijnana Bharti (Swadeshi Science Movement)
- Life member and General secretary of SHAKTI Vijnana Bharti (National movement of Women)

#### Association With Professional Bodies

- LIFE member of **Indian society of Analytical scientists (ISAS)** –Delhi Chapter with membership No-LM15
- Life member of **Indian council of chemists (ICC)** with life fellow number -1749
- Life member of **Indian Science congress Association.**

#### Other Activities

##### **Career Advancement /In service courses**

1. Successfully completed One Week online faculty Development Programme on “Development and Delivery of MOOCs and E-Content” jointly organized by central University of Haryana, Mahendergarh under the aegis of Pandit Madan Mohan Malaviya National Mission on Teachers and Teachings (PMMMNTT) and IQAC, Deshbandhu College, University of Delhi, New Delhi from **26th JUNE, 2020 to 1st July 2020.**
2. Successfully completed Two weeks Faculty Development Programme on Entrepreneurship (SCIENCE, TECHNOLOGY and MANAGEMENT FOR Society) held **from December 13<sup>th</sup>-27<sup>th</sup>, 2018**, jointly organized by Deshbandhu College in association with Teaching and learning Centre, Ramanujan College under the aegis of Pandit Madan Mohan Malaviya National Mission on Teachers and Teachings (PMMMNTT) Sponsored by NSTEDB, DST, GOVT of India.



3. Participated in a regional workshop on research base pedagogical tools held in sir padampatSinghania University, Udaipur **from 17<sup>th</sup> to 19<sup>th</sup> February 2020**(3 days) organized by(DBT),(IISER) Pune (supported by MHRD, Government of India).
4. Participated in the Faculty Development Programme **from 27<sup>th</sup> November to 7<sup>th</sup> December** organized by GADC, Khalsa College, and University of Delhi.
5. Participated in the four-week refresher course in Life Sciences and Biotechnology (IDC) **from 03<sup>rd</sup> October 2016 to 28<sup>th</sup> October 2016** Organized by UGC –HRDC Jawaharlal Nehru University.
6. Participated in the refresher course in chemistry **from 26<sup>th</sup> June 2015 to 16<sup>th</sup> July** organized by UGCASC and CPDHE and Department of Chemistry University of Delhi.
7. Participated in the orientation programme OR\_63 from **July 12<sup>th</sup> to 7<sup>th</sup> August 2010**, organized by UGC\_ASC CPDHE and ILLL university of Delhi.

Signature of Faculty Member

- You are also requested to give your complete resume as a Word or PDF file to be attached as a link on your department page.