


## RIE BHOPAL, Faculty Profile (Last five years from 2019-2025)

<b>Full Name:</b>	Dr. Rashmi Sharma			
<b>Designation:</b>	Associate Professor			
<b>Department:</b>	DESM			
<b>Official Address:</b>	RIE, Shamlla Hills, Bhopal			
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<b>Email:</b>	rashmiriebpl@gmail.com			
<b>Education Qualification:</b>	M.Sc. M. Ed. Ph. D. (Chemistry)			
<b>Teaching Experience:</b>	26 years	<b>Research Experience:</b>	20 years	
<b>Academic Identity:</b> (i) ORCID Id with web link  (ii) Scopus Author Id with web link  (iii) Researcher Institutional ID with web link  (iv) Google Scholar Id with web link  link: <a href="https://scholar.google.com/citations?user=mX8SpbUAAAAJ&amp;hl=en&amp;authuser=6">https://scholar.google.com/citations?user=mX8SpbUAAAAJ&amp;hl=en&amp;authuser=6</a>  (v) Vidwan Id: with web link  (vi) Research gate Id with web link				
<b>Research Interest and Fields of Specialization</b> Chemistry, Science Education, Chemical Education, Environmental Education Fields of Specialization: Coordination Chemistry				
<b>Member of Academic Institutions (Board of Studies / Research Degree Committee/School Board)</b> <b>Present/ Past - <a href="https://ncert.academia.edu/RashmiSharma/edit">https://ncert.academia.edu/RashmiSharma/edit</a></b>				

1. **Membership of different Organizations** – Life member of Association of Chemistry Teachers
2. **Research Supervision**  
 (No. of Ph.D. Degree Awarded \_\_\_\_\_ and Registered \_\_\_\_\_)  
 (Number of M.Phil awarded in \_\_\_\_\_)

### **3. Research Projects (Completed and ongoing with title, type, fund allocated, duration and name of the funding agency)**

#### **Research Projects completed:**

- i. Study on Digital Literacy and Cyber Security Awareness among School Going Adolescents of Western Region (2024 -2025)
- ii. Study on Development of 21st century skills through curricular activities among Adolescents of Western Region (2023- 2024)
- iii. Study on Emerging Issues among school going adolescents related to health and wellbeing in Western Region ( 2022- 2023)

#### **Research Project ongoing:**

- iv. Documentation of traditional dyeing and painting practices prevailed in various districts in M P (in progress) (selected by ministry of education under IKS Internship scheme)

#### **Research Projects completed as a Team Member**

- i. A Study of problems faced by Upper Primary and Secondary School Students in Science, Social Science, Mathematics and Language Learning
- ii. Study of Utilization and Effectiveness of Educational Kits in Schools at Elementary Stage across the Country -II (Collaborative Project – DEK, NCERT)
- iii. Rapid Assessment of Implementation of online education in the state of Madhya Pradesh during COVID 19 Pandemic Period
- iv. Status Study of School Health and Wellness Programme (SHWP) in Aspirational Districts of the Western Region (Research Study Conducted by NPEP Cell, RIE, Bhopal)
- v. Documentation and sharing of best practices in the area of health and wellbeing in schools of western region
- vi. Implementing Interventions at School Stage: Learning Levels of Elementary School Students in Ichhawar Block A Block Level Research Project (**PAC for 2020 – 21, 2021-22, 2022-23**)

### **4. Administrative Experience - NIL**

### **5. Scientific Visits Abroad/ International Collaboration –**

- i. **International Conference on emerging trends & innovations in school sciences**, February, 6 -8, 2019 (Organizing Secretary)
- ii. International Diploma Course in Guidance and Counselling (IDGC) I batch 2007 – 2008, sponsored by NCERT, New Delhi (Coordinator)
- iii. Orientation of DPCs & DEOs of M.P. on Academic Leadership in collaboration with UNICEF, M.P. (Coordinator)

### **6. Conference/Symposium/Workshop Attended during (2019-2025)**

1. Paper entitled “ School Based Initiatives for promotion of Sustainable Practices: An analysis of secondary schools of M P presented at National Conference on Recent advances in Interdisciplinary Sciences held at RIE, Bhopal, February 7-9, 2025

2. Development of 21st century skills through science teaching: An Analysis of Science Text Books at Secondary level presented in National conference on Recent Advances in Science Education held at RIE, Bhopal during 26 – 28 February 2024
3. Enhancing Learning Outcomes in Chemistry through STEM Integrated Approach presented in Regional Conference on STEM education Held at RIE, Bhopal during June 2023
4. Paper entitled Utilization and effectiveness of Science kits at elementary stage in the western states of India. Presented in 57th Annual Convention of Chemists 2020 and International Conference on Recent Trends in Chemical Sciences RTCS 2020 (GO – 7, 445) held through On-line Mode. During ...through On-line Mode.
5. Paper entitled Assessment of Practical Skills in Chemistry through online mode. Presented in National Seminar on Emerging Trends and Issues in Learners Assessment at School Level Held at RIE, Bhopal, November 24 -26, 2020, through On-line Mode.
6. Paper entitled “Interlinking Mathematics, Environmental Studies and Culture”. Presented in 9th National Conference on Mathematics Education, Held at RIE, Bhopal, December 20 – 22, 2020, through On-line Mode.
7. Paper entitled “Effect of Micro-scale Chemistry Experiments on Students’ Practical Skills in Chemistry” Presented in 56th Annual Convention of Chemists 2019 & International Conference on Recent Trends in Chemical Sciences Organized by Indian Chemical Society at Pt. Ravishankar Shukla University, Raipur during Nov. 14 – 16, 2019
8. Paper entitled “Promoting Green Values through Chemistry Practicals” presented in New Dimensions in Chemistry & Chemical Education and National Convention of Chemistry Teachers (NCCT – 2019) Organized by Association of Chemistry Teachers at SantGadge Baba Amravati University during December 5 – 7, 2019
9. Paper entitled “... presented in National Seminar Organized by RIE, Mysure during January 27 – 29, 2020
10. Technology – pedagogy Interaction and teachers’ training programme: An analysis of pre-service course with special focus in science teaching, Presented in National Seminar Seminar on ICT Integration in Education and Learning Analytics, March 15 – 17, 2019, RIE, Bhopal

**7. A) Research Papers Published in Journals last six years (2019-2025)  
(Include H-Index, i10 Index and total No of Citation as Per Scopus/Google Scholar):**

The format of Publication details should include: Authors Name (as appeared in the journal), Title of the Paper, Name of the Journal with ISSN no, Volume, Page No, DOI:\_\_\_, Year of Publication, Publisher Name, Country of Publication, Indexed, in: Scopus/Web of Science.

1. **Detrimental Effects of Fly Ash Backfill on Retaining Wall Stability and Associated Chemical Reactions** Published in Journal of Advances in Science and Technology (JAST) Vol. 21. No. 1 (2024)

2. **Integrating India's Ancient Wisdom into School Education: Need, Challenges and Way Forward** Adhigam, Ank 31, June 2024, ISSN: 2394-773X
3. **Pracheen Bhartiye Gyan Parampara evam Rasayan Vigyan** Published in edited book Bhartiye Vagyanik Gyan Pranali, ISBN: 978-81-967736-6-3, year **2024**
4. **Learning Levels in Chemistry: An Analysis with Reference to New entrants to the B. Sc. B. Ed. Programme of RIE, Bhopal**, RIE, Bhopal Journal of Education, 6(II), 2023 ISSN: 2582-0621
5. **Content Preparedness of Internees under B.Sc. B.Ed. Program: Analysis of Learning Levels before Internship in Teaching.** Pedagogy of Learning, 7 (2) April 2021, 47-53, E-ISSN: 2395-7344, P-ISSN: 2320-9526
6. **Teaching of Environmental Education through Infusion: An analysis of the transactional strategies practiced by the science teachers at secondary stage** Journal of Indian Education, August 2020 issue, Volume XLVI, Number 2, pp 56-70
7. **Technology – pedagogy interaction and teachers' training programme: An analysis with special focus on science teaching.** Indian Journal of Education Technology, 2,(II), July 2020
8. **Attainment of learning outcomes in Chemistry by senior secondary students of Goa.** RIE, Bhopal Journal of Education, 3 (II), Jan – June. 2020. PP 74-93
9. **Use of Senior Secondary Chemistry Laboratory Kit for the promotion of practical skills amongst students in the state of Madhya Pradesh.** RIE Bhopal Journal of Education, 3 (I), July – Dec, 2019. PP. 87 – 92

**B) ARTICLES PUBLISHED IN THE EDITED BOOK - NIL**

**C) PAPER PUBLISHED (IN CONFERENCE PROCEEDING with ISSN Number) - NIL**

**D) PUBLICATION OF BOOKS (Both as Authored and Edited)**

- i. Emerging trends and innovations in School Sciences (ISBN – 978-93-87463-76-9)
- ii. Nurturing Life Skills among Adolescents: Handbook for Teachers (ISBN – 978-81-973092-3-6)

**E) PREPARATION OF STUDY MATERIAL –**

1. Created E – content for P M E-Vidhya channel in Chemistry, Science, Environmental Studies and for Sahyog sessions.
2. Created Videos for online NISHTA in Environmental Studies
3. Involved in the development of Working paper on 'Environment Education'

4. Involved in the development of Working paper on “School Governance and Leadership”
5. Development of green manual for secondary stage science teachers
6. Involved in the development of Microscale Chemistry Laboratory kit. (Workshop Dept, NCERT, New Delhi.) (MCL kit is being used for enhancing students practical skills at higher secondary schools in India)
7. Involved in the development of Science Kit Manual for high school level organized by Workshop Dept, NCERT, New Delhi (Science kit and manual is being used by the teachers and students at secondary school stage in India)
8. Development of practica handbook and course guide for International Diploma Course in Guidance and Counselling in collaboration with COL” Organised by DEPFEE, NCERT, New Delhi

**F) EDITORSHIP OF RESEARCH JOURNAL - NIL**

**G) MOOCs - NIL**

**8) ORGANIZATION of SEMINAR/WORKSHOP/FDP/TRAINING PROGRAM**

- i. Organized International Conference on emerging trends & innovations in school sciences, February, 6 -8, 2019 at RIE, Bhopal as Organizing Secretary
- ii. Organized National Conference on Adolescent Education for Viksit Bharat: Issues, Challenges and Concerns, March, 24 -25, 2025 at RIE, Bhopal as Organizing Secretary

**9) Other Information if any**

**Academia ID <https://ncert.academia.edu/RashmiSharma/edit>**