

## DEPARTMENT OF CHEMISTRY, UNIVERSITY OF RAJASTHAN, JAIPUR

1. **Name & Qualification:** DR. ALKA SHARMA; M.Sc., Ph.D.
2. **Designation:** Associate Professor
3. **Correspondence Address:** B-111, Flat no.602, Solanki's Golden Tower,  
Udai Marg, Tilak Nagar,  
JAIPUR-302 004 (Rajasthan)
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6. **Major areas of Research:** Electrochemistry; Corrosion Science;  
Bio-reduction of metal salts (GNPs)
7. **No. of Research Publications:** 37
8. **No. of Ph.D. awardees:** 03
9. **No. of Conferences/Seminars/Symposiums/Workshops participated:**
  - a. **National:** 40
  - b. **International:** 20
  - c. **Invited Talk/Lecture:** 12
10. **R&D Projects (Completed/Ongoing) (details with Title, name of funding agency, amount, duration):**
  - ✚ **UGC Major Research Project** (2009-2013) for **Rs. 8.8 lacs**; entitled, "*Efficacy of Some Green Inhibitors to Combat Corrosion of Some Industrial Metals and Their Alloys*" as Co-investigator (PI: Prof. P. S. Verma).
  - ✚ **UGC Minor Research Project** (2004-06) for **Rs. 85,000/-**; entitled: "*Electrochemical Studies and Determination of Kinetic Parameters of Some Biologically Important Metal Complexes*"
11. **Member of various Academic Professional Bodies/Societies:**
  - i. (Twice) **Elected Member of Governing Council of (ECSI) Electrochemical Society of India, Indian Institute of Science, Bangalore for the year 2006-2007 & 2014-15.**
  - ii. **Life Member** – Indian Chemical Society, Calcutta (F/2934) (LM)
  - iii. **Life Fellow Member** – Trans. SAEST, Karaikudi (LF/637)
  - iv. **Fellow Member** – Indian Science Congress Association (L11091)
  - v. **Life Member** - Electrochemical Society of India, Bangalore (LM-105)
  - vi. **Life Member** - Chemical Research Society of India, Bangalore (LM-719)
  - vii. **Life Member** – International Academy of Physical Sciences, Allahabad (India) (N15256)
  - viii. **Life Member** – RASAYAN Journal of Chemistry (LM-115/2011)
  - ix. **Life Member** – Society for Materials Chemistry (LM-665)
  - x. **Life Member** – Indian Society of Electroanalytical Chemistry (LM-212)
  - xi. **Life Member** – Materials Research Society of India (MRSI) (LMB-2294)
  - xii. **Member** – Green Chemistry Network Centre, DU, Delhi and RSC, London (North India Section)
  - xiii. **Member Editorial Board– Water R&D (ISSN:2249-2003)** An international Research Journal; Published at RASAYAN, Books & journal Pvt. Ltd., Jaipur
  - xiv. **Editorial Associate Secretary– Chem News Letter - A Journal of Research and Education in Chemical Sciences (ISSN 2278-6201)**
  - xv. **Organizing Secretary, Local Chapter Rajasthan, CRSI** (Chemical Research Society of India)



- xvi. **Member, *Pragya* – an Academic Forum, University Maharani College, University of Rajasthan, Jaipur**
12. **Achievements/Awards/Honors:**
- **Elected Member of Governing Council of (ECSI) Electrochemical Society of India, Indian Institute of Science, Bangalore (Thrice) 2006-2007; 2014-15 and 2015-16.**
13. **Authored Book Chapters/Books /Books Edited by you (details with Title, Publisher, Place, Year):**
- Contributed in **UGC-MHRD e-Content Project at PG level (2014)** as Content Writer for Environmental Sciences.
  - **Book Chapter** on “**Formulating Policies for the Environmentally Sustainable Solution to Mitigate Corrosion,**” in book “**Governometrics and Technological Innovation for Public Policy Design and Precision**”, **IGI Global, Hershey, Pennsylvania (USA), 325-352, February 2014 (ISBN:13: 9781466651463)**
  - **Book Chapter** on “**Green Corrosion Inhibitors: Status in Developing Countries**” in book “**Green Corrosion Chemistry and Engineering: Opportunities and Challenges,**” **Wiley-VCH Verlag GmbH & Co. KGaA, December 2012 (ISBN: 978-3-527-32930-4) 157-180.**
  - **Authored Chapters** of undergraduate course books for Vardhman Mahaveer Kota Open University, Kota – **(a) B. Sc. Part II [Practical] Units I, II, III & IV) CH-08 (2007-08); (b) B. Sc. Part III (Theory – Inorganic, Units I & II) (2008-09)**
14. **Trainings / Teaching-Learning Courses attended:**
- UGC sponsored One week **Short Term Course** on **Continuous Assessment and Examination Evaluation** (October 21-26, 2013) conducted by UGC-ASC, UoR, Jaipur
  - UGC sponsored Three days **Workshop** on **Understanding and Implementation of RTI** (November 1-3, 2012) conducted by UGC-ASC, UoR, Jaipur
  - UGC sponsored **ONE Orientation Course** (July 1998).
  - UGC sponsored **TWO Refresher Courses in Chemistry** (June 2002 & October 2005) conducted by UGC-ASC, UoR, Jaipur
  - Training in **Electroanalytical Techniques at BARC**, Mumbai (in 1990)
15. **Contribution in University Corporate services:**
- Actively accomplished various assignments/duties in University Maharani College as well as University of Rajasthan, Jaipur
- Returning Officer (MCSU Election-2015) University Maharani College, UoR, Jaipur (2015-16)
  - Convener, B.Sc. I year Science Admission, University Maharani College (2015-16)
  - Member, Central Admissions University, URATPG, UoR (2012-13; 2013-14; 2014-15)
  - Member, NAAC Steering Committee (2013-14; 2014-15; 2015-16)
  - Member, Glimpses (Publication Committee), UoR (2012-13)
  - Member, U M Committee, UoR (2012-13)
  - Member, Code of Conduct Committee (RUSU Election 2013-14)
  - Member, RUSU Election Committee (DSW), UoR (2012-13; 2014-15)
  - Member, Ghoomar, UoR (2011-12)
  - Member, Research Supervisor Registration Committee, MDS University, Ajmer (2013-14)

- Associate Member Website Committee (2009)
- Coordinated the Students' Team of University Maharani's College for the *Inter-State Prashnottari Competition-2009* organized by Doordarshan Kendra, Jaipur in the session 2009-2010 (College team won 1st prize).
- Worked actively as Rector, University Maharani College for seven academic sessions (2003-04; 2005-11)
- Worked actively as Member in different committees of Department of Chemistry, University of Rajasthan as well as University Maharani College; viz. Admission; Instrumentation; Syllabus; Counseling; Time table; Stores & Purchase; Gold Medal; Placement cell; Examinations; Cultural Activities; Social Welfare etc.
- Organize – the Annual event of University Maharani College – 'University Maharani College Chemistry Olympiad – UMCCO- an Inter-Collegiate Science Quiz Competition'.

**16. Any other information(s):**

- Founder *Subject Experts* (Inorganic Chemistry) in Satellite Communication Program (SAT-COM) – DST project, Govt. of Rajasthan (2011 – contd.)

**Administrative Positions held:**

- Deputy Director, UGC-Academic Staff College, University of Rajasthan, Jaipur (18 August 2010 to 22 November 2014) (*In 2012, NAAC Accredited UGC-ASC II best in the country out of 66 ASCs*)
- Co-coordinator, BCA, University Maharani College, Jaipur (2012-13)
- Chief Rector, University Maharani College, University of Rajasthan, Jaipur (2010-11)