

DR. REKHA LAGARKHA

Curriculum-Vitae

Teaching & Research Experience: 17 yrs

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Current Status: Assistant Professor, Department of Chemistry, Assistant Dean Student Welfare & cultural coordinator, Bundelkhand University, Jhansi, UP, INDIA.

Education:

Ph.D. in Chemical Kinetics from A.P. S University, Rewa (M.P.) in the year 2002(submitted) and **awarded** in 2003 under the topic "Oxidative Kinetics of Secondary Alcohols in acetic Acid medium with N-bromosaccharin in presence and absence of Micelles." Qualified **M.P. SLET-2000** Held by U.G.C. New Delhi. **M.Sc.** in Organic Chemistry from A.P. S University, Rewa (M.P.) in the year 1998 with **first division(72.1%)**. **B.Sc.** from A.P. S University, Rewa (M.P.) in the year 1996 with **first division(67.5%)**. **12th** from M.P. Board Bhopal, in the years 1993 with **first division(69.5%)**.

Research Experience:

Two students awarded Ph.D under my supervision under these topics:

1. To study the utility of green methods(PEG and Ionic liquids) on various condensation reactions.
2. Oxidative kinetics of Carbohydrates in presence and absence of micelles.

Currently two students are working as research scholars under these topics:

1. Oxidative kinetics of Primary Alcohols in presence and absence of micelles.
2. Acetylation of Alcohols and Phenols using metal salts as a catalyst.

Guided 21 students for their M.Phil Dissertation work.

Teaching Experience:

Worked as a lecturer in Rewa Engineering College, M.P. for four years (20/01/1998 to 20/02/2002) **4yrs**

Working as Assistant Professor in Bundelkhand University, Jhansi since 17th April 2003, **13 yrs**

University Administrative Services:

Working as **Assistant Dean Student Welfare**, at Bundelkhand University, Jhansi, since 2008.

Working as **cultural coordinator** at Bundelkhand University, Jhansi from 29/09/2012.

Worked as a **co-ordinator** in Department of Applied Chemistry, Bundelkhand University, Jhansi for four years.

Worked as a **co-ordinator**, Department of Pure Chemistry, Bundelkhand University, Jhansi for four years.

Publications

1. Polymeric PEG35k-Pd Nanoparticles: Efficient and Recyclable catalyst for reduction of nitro compounds 213-222, Synthetic communication, vol 42, **2012**
2. Oxidation of Glycolic Acid by N-bromosaccharin in Presence and Absence of Cationic Surfactants, 1340-1346, Asian Journal of Chemistry, Vol 18, **2006**
3. Catalytic Reduction of Nitroarenes with Polymeric Palladium Nanoparticles 114-119, Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry, 41, **2011**
4. Pharmacognostical evaluation of *Grewia asiatica* fruits 249-251, Int. J. of Plant Science, No.-2, **2006**
5. Evaluating the seasonal change of water quality parameter of Yamuna river at Kalpi 403-408, National Journal of Life Science, 2, **2005**
6. In-vitro antioxidant activity of successive extract of *Gravia asiatica* leave 54-57, Asian Journal of Chemistry, 19, **2006**
7. Excess free volume and intermolecular interaction binary liquid mixtures of o-xylene with 1-alkanols. 1335-1339, Asian Journal of Chemistry, 18, **2006**
8. Triton-X-100: Green media for Aza and Thia-Michael Addition 5591-5597, Asian Journal of Chemistry, vol.21, no.7, **2009**
9. Comparative Study of Acetylation of Alcohols & Phenols with Different Acetylating Zinc Chloride Asian J. Chemistry, Vol.22, **2010** ($ZnCl_2$) as Catalyst Under Solvent Free Conditions at Room Temperature 5155-5158, Asian J. Chemistry, Vol.22, **2010**
10. Dependence of rate on dielectric constant of the medium in absence and presence of micelles 58-60, Int. J. Pharmaceutical Research 4, **2005**
11. Antioxidant activity of the successive extracts of *Grewia asiatica* leaves 3417-3420, Asian J. Chem vol 19, no 5, **2007**

Conference presentations:

1. "Effect of Sodium lauryl sulphate on the oxidation of secondary alcohols by N-bromosaccharin" in 40th annual convention of chemists, 23-27 Dec 2003
2. "Effect of Cetyl trimethyl ammonium bromide on the oxidation of secondary alcohols by N-bromosaccharin" in 40th annual convention of chemists, 23-27 Dec 2003
3. "Effect of $HClO_4$... in presence and absence of micelles" in Second international conference on recent advances in biomedical and therapeutic sciences, 6-8 Jan 2005

Special Trainings:

Orientation course from Kumaun University, Nainital

Two months special training from ACBR, University of New Delhi entitled, "Synthesis of Biologically Active Piperazine Derivatives".

One week summer school on NMR at IISC, Bangalore

One week faculty development programme from B.U. Jhansi

Ten days orientation course for NSS programme officer.

Conferences Organized:

1. "National Conference on Emerging Trends in Chemical Sciences" (NCETC-2010) 24-26 Feb 2010. (Convener & Organising secretary)
2. International conference on Recent advances in Material and Chemical sciences (ICRAMCS-2016), 2-5 March 2016 (Convener & Organising secretary)
3. 40th Annual Convention of Chemist 2003, Jhansi (organizing member)
4. International Conference on Recent Advances in Biomedical and Therapeutic Science, 2004, Jhansi. (organizing member)

5. Emerging Scenario in Forensic Sciences,2009 at Jhansi. (organizing member)
6. Pre-cambrian continental growth and tectonism,2009 at Jhansi. (organizing member)
7. 30th National Symposium on Electron Microscopy and Applied Fields,2009 at Jhansi. (organizing member)
- 8.National conference on Role of biodiversity in sustainable agriculture,4-5 march 2010. (organizing member)

Conferences/Symposia Attended:

- ❖ 40th Annual Convention of Chemist 2003, Jhansi
- ❖ International Conference on Chemistry Biology Interface : Synergistic New Frontiers,2004 New Delhi.
- ❖ International conference on Recent Advances in Biomedical and Therapeutic Science, 2004, Jhansi.
- ❖ Pre-Cambrian continental growth and tectonism,2005 at Jhansi.
- ❖ Second International Conference on Recent Advances in Biomedical and Therapeutic Science,2004
- ❖ National Workshop on Fish Productivity 2006 at NASC, Delhi.
- ❖ International Conference on Modern Trend in Forensic Science, 2005, Jhansi
- ❖ 8th Indian Fisheries Forum,2008 at Kolkata
- ❖ National workshop on Disaster Management,2008 at Jhansi.
- ❖ Emerging Scenario in Forensic Sciences,2009 at Jhansi.
- ❖ Achieving millennium development goals: Problems and Prospects,2009 at Jhansi
- ❖ Pre-Cambrian continental growth and tectonism,2009 at Jhansi.
- ❖ 30th National Symposium on Electron Microscopy and Applied Fields,2009 at Jhansi.
- ❖ National conference on Role of biodiversity in sustainable agriculture,4-5 march 2010 at Jhansi.
- ❖ International Conference on recent advances in material science and technology 17-19th jan 2013
Surathkal.

Student Activities: Worked as a **senior programme officer, National Service Scheme** from 2006 to 2009 and attended various national level camps such as –Bharat Yuva Camp, Delhi, Pre-republic Day parrade camp, Nahan, (Himachal Pradesh) & National Talent Search Programme, Annamalai University, Chidambaram etc.Organised many youth festivals and tours as ADSW & Cultural coordinator.Life time member of SPIC MACAY.

Personal Details: Dr. Rekha Lagarkha D/O Sri. R.S. Verma , **Permanent Address :**Below Kaimasan mandir,Kaimasan Puram, Karguanji, Jhansi (U.P.) , **DOB:** 01/03/1975, **Marital Status:** Divorcee. **Language Known :** English & Hindi