

Curriculum Vitae

Name : Rajkumar Shankarrao Sirsam

Designation : Associate Professor

Contact Information :

Department of Chemical Engineering,
University Institute of Chemical Technology,
North Maharashtra University, Jalgaon- 425 001

Email: rssirsam@nmu.ac.in,
rajkumarsirsam@gmail.com

Mobile No. : +91-9405057841, 8806671369.

Telephone No.: +91-257-2257420 Ext. 181

Fax NO.: +91-257-2258403.



Education Qualification :

B. Tech. (Chem. Engg.), Laxminarayan Institute of Technology, Nagpur University.

M. Tech. (Chem. Engg.), Laxminarayan Institute of Technology, Nagpur University.

Teaching Experience :

1. Working as **Associate Professor** at UICT, NMU, Jalgaon since **18th July 2011**.
2. Worked as **Reader** at UDCT, NMU, Jalgaon from **18th July 2008 to 17th July 2011**.
3. Worked as **Lecturer** at Dr. Babasaheb Ambedkar Technological University, Lonere, Raigad from **6th June, 2003 to 17th July, 2008** (5 Years)

Area of Research:

Separation techniques, Waste water treatment, Corrosion engineering. Reaction Engineering, Reactive Distillation, Reactive Chromatography.

Number of M. Tech. Students completed:

| Sr. No. | Name of the Student | Title of the Project | Year |
|----------------|----------------------------|--|-------------|
| 1 | Ms. Jayshree More | Study on alkylation of aniline with methanol using supported metal oxide catalyst. | 2014 |
| 2 | Mr. Nilesh Rane | VLE data prediction for ternary mixture for using binary VLE measurements at atmospheric and sub-atmospheric pressures for processes equipment design. | 2014 |
| 3 | Ms. Rajashree Ingle | Effect of salt (NaCl) on vapour liquid equilibria of binary azeotropic mixture (1-propanol-water) | 2012-13 |
| 4 | Ms. Shraddha Borole | To Reduce cycle time of moisture removal from insulating oil | 2012-13 |
| 5 | Ms. Anju Ingle | Heavy gas dispersion due to accidental releases from chemical industries and risk assessment using modeling techniques. | 2012-13 |
| 6 | Mr. Vays Patil | Development of new adsorbent and adsorption process | 2011-12 |
| 7 | Mr. Raghuraj Kamble. | Modeling & simulation of transvinylation of lauric acid | 2011-12 |
| 8 | Mr. Swapnil Urade. | Design a plant to manufacture 100 TPD of Urea | 2010-11 |
| 9 | Mr. Jitendra Patil. | Performance evaluation of polyamide reverse osmosis membrane for removal of contaminants in ground water collected from chandrapur district. | 2010-11 |
| 10 | Mr. Mangesh Dhonde | | 2009-10 |
| 11 | Mr. Nilesh Patil | Detail engineering design & Utility Optimization of 30 KLPD TS Ecofine-MPR Distillation plant for MSSK Faizpur | 2010-11 |

Number of M. Phil. Students on going:

| Sr. No. | Name of the Student | Title of the Project | Year |
|----------------|----------------------------|--|-------------|
| 1 | Mr. Pratik Pawar | To study the corrosion inhibition efficiency of herbal extract for Al, Cu, SS and MS in various acidic solutions | 2014 |

| | | | |
|---|----------------------|--|------|
| 2 | Miss Dipali Bhole | Photocatalytic degradation of methylene blue using zinc oxide, Mg & Mn doped zinc oxide nanoparticle | 2014 |
| 3 | Mr. Rahul Koli | | 2014 |
| 1 | Mr. Vikrant Wankhade | Effect of salt on vapour liquid equilibria of binary azeotropic mixture | 2013 |
| 5 | Mr. Sangersh Dongre | Effect of salt on vapour liquid equilibria of binary azeotropic mixture (Toluene-i-propanol) | 2013 |

Number of research papers published

- **Rajkumar Sirsam**, Ghayas Usmani, “Kinetic Study for the Synthesis of Diethylmaleate over Cation Exchange Resin Indion 730”, International Journal of Chemical Engineering Application, Vol.4, No. 4, August 2013, pp-217-220, DOI:10.7763/IJCEA.2013.V4298, ISSN 2010-0221
- Vidyadhar V. Gedam, Jitendra L. Patil, Srimanth Kagne, **Rajkumar S. Sirsam** and Pawankumar Labhasetwar, “Performance Evaluation of Polyamide Reverse Osmosis Membrane for Removal of Contaminants in Ground Water Collected from Chandrapur District”, **J Memb Sci Technol** 2012, 2:3, ISSN:2155-9589.
- **Rajkumar Sirsam***, Ravindra G. Puri, Pawan D. Meshram, “Influence of cetylpyridiniumbromide on corrosion inhibition of mild steel in sulphuric acid medium”, **Chemical Technology-An Indian Journal**, 7(2) 2012 [57-60] ISSN : 0974 – 7443.
- Ravindra G. Puri*, Pawan D. Meshram, **Rajkumar S. Sirsam**, “SMART COATINGS: Recent developments in smart coatings for corrosion”, **Paintindia**, Vol LXII-No. 5, May 2012, pp-55-61.
- Nilesh Patil*, **Rajkumar Sirsam**, “Gamma-Ray Scanning, The best emerging technology for troubleshooting, optimization and predictive maintenance of distillation columns”, **Chemical Industry Digest**, September 2011, pp 66-71.

Conference Attended/presented paper:

- Presented a paper entitled “study on alkylation of aniline with methanol using supported metal oxide catalysts” at International conference on Advances in Chemical Engineering & Technology held at Kollam, Kerala during 16th – 18th Oct, 2014.
- Presented a paper entitled “Kinetic Study for the Synthesis of Diethylmaleate over Cation Exchange Resin Indion 730” at International Conference on Chemistry & Chemical Engineering (ICCCE2013) held at Hong Kong on 6th – 7th July 2013.

- Presented paper entitled “Kinetic investigation of green corrosion inhibitor lauryl amine oxide on mild steel in acidic medium” at International conference on Advances in Chemical Engineering (ICACE 2013) held at NIT Raipur during 5th-6th April 2013.
- Participated in National level student paper presentation (Milestone 2K13) on 2nd March 2013 held at SSBT’s CoET, Bhambori, Jalgaon.
- Participated in National conference on Nano Sciences and Nano Technology on 23rd March 2013 at UICT, NMU, Jalgaon.
- Presented paper entitled “Individual & Societal Risk for Toxic Release Scenarios of Ammonia” at National Conference on “Environmental Surveillance For Natural Resource Management” held on 9th and 10th January, 2012.
- Participated in Fifth International conference on “Fermented Foods, Health Status and Social Well-being: Challenges and Opportunities” Organized during Dec. 15-16, 2011 at CFTRI, Mysore, India.
- Presented a paper “Recent Development in Hydro Processing” in National Seminar on Eco Friendly Chemical Technologies in New Millennium at Dept. of Chem. Tech. Amravati University during 7-8 Feb 2002.

Research project on going

- DST-SERB major research project entitled “Study on foam bed reactor for the production of biofertilizer” Amount sanctioned Rs. 12,00,000/-
- TEQIP-II (SEED Money) research project entitled “Effect of salt on vapour liquid equilibria of binary mixtures”. Amount sanctioned Rs. 4,00,000/-

Research project Completed

- UGC minor research project entitled “Studies on Plants Extracts as Corrosion Inhibitor for Metal in Acidic Environment”. Amount sanctioned Rs. 2,00,000/-

Memberships:

- Life member of Indian Society for Technical Education (ISTE), New Delhi, India. (LM 56880)
- Member of Asia-Pacific Chemical, Biological & Environmental Engineering Society (APCBEES), Hong Kong. (Member NO.: 200779, www.cbees.org)

Administrative Work experience:

- Working as Rector (University Boys Hostel) NMU. Jalgaon since 2012
- Worked as University Sports Officer at Dr. Babasaheb Ambedkar Technological University, Lonere, Raigad (04 Year)

- Worked as Assistant Rector at University hostel, Dr. Babasaheb Ambedkar Technological University, Lonere, Raigad (02 Year)

Serving on Editorial Boards:

- Working as reviewer for International conference on Food and Chemical Engineering (ICFE2014) going to be held at UAE on 2014.

Conference/workshop Organized:

- Organized one day workshop on “COMSOL Multiphysics Modelling” sponsored by TEQIP-II and in collaboration with M/s COMSOL Multiphysics, Bangalore on 30th Oct, 2014.
- Convener of National Conference on “Recent Advances in Chemical Engineering” held on 4th Feb 2012 at School of Chemical Technology, North Maharashtra University, Jalgaon.

Short term courses attended:

- Participated in the training programme on “E-Governance: Issues & Challenges” organized by National Productivity Council at Port Blair during 6th to 10th Jan 2014 .
- Completed one week training program on “Catalysis- practical approach” under TEQIP-II at Chemistry Research Centre, BIT, Bangalore during 11th to 15th Nov 2013.
- Completed one day “Scientific writing & publishing” workshop at JNU, New Delhi on 29th Nov. 2013.
- Participated in three day National workshop on “Manomaterials & Nanotechnology” organized at MIT, Aurangabad during 15th to 17th Sept 2013.
- Participated in two-day workshop o TEAM BUILDING during 27- 28 July 2013 at UICT, NMU, Jalgaon under TEQIP-II
- Attended TEQIP Sponsored Short term training program on Nanoscience and Nanotechnology during 20-25 June 2013 at UICT, NMU, Jalgaon
- Attended one week National workshop “Advances in Chemical Engineering: Recent Trends” from 26th -30th March 2012 at Dr. B. A. T. U., Lonere, Raigad, India.
- Attended workshop cum training programme on Chemical engineering laboratory at ICT, Mumbai during 28th Sept to 2nd Oct 2011.
- Attended workshop on “Marine Corrosion and Surface Engineering” during 24 -26 Nov, 2011 at the centre of Advance Studies in Marine Biology, Annamalai University, Parangipettai, T.N.
- Attended staff development programme on “Computational Fluid Dynamics for Engineers” at SVNIT, Surat during 01-05 Feb 2010.
- Attended ISTE-AICTE –STTP on “Application Based Numrical Methods for Chemicval Engineers using MatLab” at Dr. B. A. T. U., Lonere, Raigad during 9-14 March 2009.
- Attended DST-SERC School on “Advanced Separation Processes in Chemical & Biochemical Industries” During 21-24 March 2007 at ICT, Mumbai.

- Completed Staff Development Programme on “Induction training programme for Engineering College Teachers” during 2-13 May 2005 at Dr. B. A. T. U., Lonere, Raigad.
- Completed The Training Programme on HPLC conducted at Chemito Technologies Pvt. Ltd, Nashik during 14-16 Dec 2005.
- Attended AICTE sponsored two week staff development programme on “Developing Pedagogical Skills” at Dr. B. A. T. U., Lonere, Raigad during 28June-9July 2004.

Responsibility handled:

- Working as Rector, University boys Hostel No. 2, NMU. Jalgaon.
- Coordinator, Examination Committee (Chem. Engg.) for academic year 2010-2011 and 2011-2012.
- Coordinator, Training and placement during academic year 2008-2009.
- Organized blood donation camp in collaboration with Civil Hospital, Jalgaon at University Health Center on 18th Jan 2012.
- Convener of University level Competition “OPEN HOUSE-2011” held at School of Chemical Technology, North Maharashtra University, Jalgaon, India.
- Member of Transportation and Accommodation Committee at University Level Research Festival AVISHKAR 2011 on 28th -29th Dec, 2011.
- Member of organizing committee of third National conference on “Recent Advances in Polymer Technology-2011” At North Maharashtra University, Jalgaon, India.
- Member of organizing committee and Presented a poster in National Conference on “Recent Innovations in Oil & Food Technology-2010” at North Maharashtra University , Jalgaon, India.
- Member of Organizing committee of University level Competition “OPEN HOUSE” from 2009 to 2013



Date: 12th October, 2014

Prof. R. S. Sirsam