

Name MR. SUNIL M BADGUJAR
M.Tech. Chemical Engineering

Designation Assistant Professor

Department Chemical Engineering

Date of Joining the Institute 27/01/2009

Education **Ph.D.** Chemical Engineering (**Pursuing**)
M.Tech. Chemical Engineering
B.Tech. Chemical Engineering
Diploma Chemical Engineering

Branch / Specialization Chemical Engineering
Chemical Reaction Engineering

Areas of Interest Energy System Design
Nanotechnology
Process Equipment Design

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Academic Appointments

Name of the University / Institute/ Industry	Duration	Designation
Finolex Academy of Management and Technology, Ratnagiri	From 27/01/09 to till date	Assistant Professor
University Department of Chemical Technology, North Maharashtra University, Jalgaon	June-2004 to May-2008	Lecturer
Total Experience – 12.5 Years		

Awards / Honors / Prizes

1. Secured All India Rank 244(94%) **GATE** examination March 2007.

Papers Published in National / International Journals - 04

International Journals – 04

1. **“Study of Effect of Concentration on Adsorption of Methyl Red Dye using different Adsorbents”** Sunil M. Badgujar, Prashant A. Giri & Raju K. Marag, published in International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 5 Issue XI November 2017.
2. **“Experimental Study Of Methylene Blue Dye Adsorption Using Cashew-Nut Shell as an Alternate Adsorbent”** Sunil M. Badgujar, Prashant A. Giri, Shubham B. Dere, Sangram M. Gurav & Mayuresh M. Panjari, published in Journal of Emerging Technologies and Innovative Research (JETIR), Volume 4, Issue 11, Nov 2017.
3. **“Effect of Molar Ratio on Conversion of Methanol for Hydrogen Production by Steam Reforming for Fuel Cell Application”** Badgujar S. M., Bhande R.S. & Kadlag S.S., published in International Journal of Chemical and Physical Sciences, 2, 2013, 11-17.
4. **“Experimental Study of Densely Packed Thin Film of Octadecanoic Acid at Air–Water Interface”** Badgujar S. M., Bhande R. S. & Kadlag S. S., published in International Journal of Engineering Research and Technology, 1(6), 2012, 1-4.

Papers Presented in National/ International Conferences - 04

International Conferences – 01

1. **“Synthesis of Nanopoly Acrylic Acid & its Application as Antiscalming Agent”** Presented in International Conference on Sustainable Development on 25-26th Feb 2014 organized by College of Engineering & Technology, Bambhori, Jalgaon (M.S)

National Conferences – 03

2. **“Experimental study on Determination of Friction Factor in Helical Coil”** Presented in National Conference on Recent Advances in Science & Technology, RAST- 2k16 on 17th & 18th Feb. 2016.
3. **“Development of “Two Step Synthesis of 2- Alkyl Imidazoline and Kinetic Modeling”** Presented in National Conference organized by UDCT, NMU, Jalgaon.
4. **“Process Design and Reaction Engineering of Low Temperature Synthesis of 2-Alkyl Imidazoline”** Presented in National Conference organized by UDCT, NMU, Jalgaon.

Workshop STTPs and FDPs: 09

1. 2-Week STTP on “**Process Design & Intensification: Fundamentals to Applications**” Organized by University Institute of Chemical Technology, North Maharashtra University, Jalgaon on 26th Dec 2016 to 04th Jan 2017.
2. One day workshop on “**Intellectual Property Right**” organized by MCED, Ratnagiri on 23rd Aug 2016.
3. 2-Week ISTE workshop on “**Engineering Thermodynamics**” Under the National Mission on Education through ICT (MHRD, Govt. of India) Conducted by IIT Bombay, held at FAMT Ratnagiri during 11-21 Dec 2012.
4. 2-Week ISTE workshop on “**Introduction to Research methodology**” Under the National Mission on Education through ICT (MHRD, Govt. of India) Conducted by IIT Bombay, held at FAMT Ratnagiri during 25 June -4 July, 2012
5. 2-Days STTP on “**Design & Analysis of Pressure Vessels**” organized by Gharda Institute of Technology, Lavel, Khed, Ratnagiri on 20th - 21st Feb 2011.
6. 1-Week STTP on “**Certificate course in Nanotechnology**” held at Department of Chemical Technology, NMU, on 11-15 May 2010.
7. Participated in workshop cum training programme on “**Chemical Engineering Laboratory**” held at Institute of Chemical Technology, Matunga, on 29th -31st May 2009.
8. Participated in workshop on “**Simulation of Chemical Plants Using Modular Simulator**” held at Maharashtra Academy of Engineering, Alandi, Pune, on 19th -20th June 2008.
9. Participated in “**Teaching Quality Improvement Programme**” held at Department of Chemical Technology, NMU, Jalgaon, from 4th - 16th Sep 2006.

Conference: 01

1. National Conference on “**Role of Nano Technology in Polymer and Chemical Industry**” held at Department of Chemical Technology, NMU, Jalgaon, on 15th March 2008.

Seminar: 01

2. National Seminar on “**Recent Trends in Chemical Technology**” at North Maharashtra University, Jalgaon, held on 6th – 7th January 2005.

Professional Membership

1. Indian Society of Technical Education (I.S.T.E)
2. Reviewer for the Journal of Emerging Technologies and Innovative Research (JETIR).

College Exam Duties

1. Worked as an **Additional Senior Supervisor** University Examination Summer 2014.
2. Carried out exam related duties such as **Paper Setter, Moderator, Examiner and External Examiner** for conducting theory, practical and oral exam as appointed by Board of Examination, Mumbai University.
3. Worked as **Department Co-Coordinator** University Oral/ Practical Examination

Other Experience

College Level Committees

- Working as a department coordinator for **NAAC Criteria VI**
- **Member** of Core Organizing Committee of National Conference on “**Recent Advances in Science and Technology**” held at FAMT, Ratnagiri (MS) during 17-18 February 2016.
- Worked as **Faculty in charge** of **ACES (Association of Chemical Engineering Students)**
- **Visiting faculty** at Finolex Industries Limited for Educational Quality Improvement Program (**EQUIP**) run by FIL in association with Indian School of Petroleum and Energy (ISPE).
- **Member** of Organizing Committee of National Conference on “**Advances in Heat and Mass Transfer**” held at FAMT, Ratnagiri (MS) during 30-31 October 2009.

Projects Guided at UG Level

- Modeling of Batch Fluidized Bed Dryer
- Design of a Heat Exchanger Network using HINT (Ammonia Synthesis Process)
- Study of Effect of Various Factors on Adsorption of Dyes
- Design of a Batch Fluidized Bed Drier
- Study of Formation of Ethanol from Palm Sap
- Design of Heat Exchanger Network for Manufacturing of Sulphuric Acid Plant
- Extraction of Eugenol from Tulsi (Basil)
- Study of Kinetics of Saponification Reaction
- Cooling Tower Design
- Theoretical Study of Linings for Different Equipments
- Manufacturing of Acetone (Plant Design for Capacity of 150T/Day)
- Reactor Design for Synthesis of 2-Alkyl Imidazoline

Subject Taught

Sr. No.	Name of the Subject	Year/Branch/Semester	Experience
1.	Chemical Reaction Engineering-I	TE CHEM ENGG V SEM	07
2.	Chemical Reaction Engineering-II	TE CHEM ENGG VI SEM	07
3.	Energy System Design	BE CHEM ENGG VIII SEM	03
4.	Plant Engineering	TE CHEM ENGG VI SEM	01
5.	Process Equipment Design	BE CHEM ENGG VII SEM	02
6.	Plant utility	SE CHEM ENGG IV SEM	03