

Dr. M. Y. Naniwadekar

Assistant Professor
Department of Chemical Engineering
All India Shri Shivaji Memorial Society's
College of Engineering, Kennedy Road, Pune-411 001
Maharashtra, INDIA Ph: (Off.) +91 20 26058587,
26057660 Ext. 1204 Ph: (Res.) +91 20 24345154
M: 9552518700
E-mail: mynaniwadekar@aissmscoe.com



Educational Qualifications

1. PhD Chemical Engineering (NCL), Savitribai Phule Pune University, Pune
2. M. E. Chemical, TKIET Warananagar, Kolhapur
3. B. E. Chemical, PVPIT Budhgaon, Sangli

Experience

- **Teaching:** 20 Years
- **Industry:** 2 Years
- **Research:** 1 Year

Research Area

- Process design, development and research, Plant design and project engineering, Modeling, optimization and simulation of processes using state-of-the-art approaches

Publications

➤ National:

- **Naniwadekar M Y, Jadhav A S (2005)** "Cost estimation and Profitability Analysis for Alkaline Depolymerization of Poly Ethylene Terephthalate Waste" National Journal of The Institution of Engineers, Volume 86, Sept 2005

➤ International:

- **Naniwadekar M Y, Jadhav A S (2011)** "Kinetic Study of Mono (2 - Ethyl hexyl) Phthalate as Plasticizer" International Journal of Advanced Engineering Technology, E-ISSN 0976-3945
- **Naniwadekar M Y, Jadhav A S (2011)** "Adsorption of oil from oily water using human hair" International Journal of Advanced Engineering Technology, E-ISSN 0976-3945
- **Naniwadekar M Y, Jadhav A S (2012)** "Process Development of Pesticide Production from Azadirachta Indica A. Juss" International Journal of Agriculture Innovations and Research, Vol 1, Issue 2. ISSN 2319-1473
- **Naniwadekar M Y, Jadhav A S, Ghosh A, Sahu A (2013)** "Cost Estimation and Optimum Route Selection For The Production Of Aconitic Acid" International Journal of Basic and Applied Chemical Sciences, Vol. 3(4), pp 79-87, ISSN 2277-2073.
- **Jadhav A S, Naniwadekar M Y, Ranavare S (2013)** "Enzymatic Hydrolysis of Maize for Synthesis of Ethanol", International Journal of Chemical & Petrochemical Technology (Trans Stellar Journal Publications), Vol 3, Issue 4, 7-14, ISSN 2277-4807.
- **Naniwadekar M Y, Jadhav A S (2015)** "Optimum Heat Integration of Cumene Process by Heat Exchanger Network", International Journal of Current Research, Vol 7, Issue 08, pp. 18995-19003, ISSN: 0975-833X.
- **Tiwari S, Naniwadekar M Y, Kamble S P, Tambe S S (2018)** "Prediction of Rate Constants of Photocatalytic Degradation of Pharmaceutical Pollutants by Artificial Intelligence based Genetic

- Programming Formalism”, Current Environmental Engineering, Vol 5, Issue 1, pp. 58-67, ISSN 2212-7186.
- Tambe S S , **Naniwadekar M Y**, Tiwary S, Mukherjee A, Das T B (2018) “Prediction of Coal Ash Fusion Temperatures Using Computational Intelligence based Models”, International Journal of Coal Science & Technology, Vol 5, Issue 4, pp. 486-507, ISSN: 2198-7823.

Conference

➤ National:

- **Naniwadekar M Y**, Lunawat S, Jadhav A S “Kinetic Study of Mono (2- ethylhexyl) phthalate as plasticizer” National Conference on Environment and Green Technology (NCEEM-2008) organized by TKIET Warananagar on 15th & 16th Feb. 2008
- **Naniwadekar M Y**, Jadhav A S “Adsorption of oil from oily water using human hair” National Conference on Environment and Green Technology (NCEEM-2008) organized by TKIET Warananagar on 15th & 16th Feb. 2008
- **Naniwadekar M Y**, Jadhav A S "Study of Influence of Carbonized Temperature on Surface Morphology of Grape Stalk" National Conference on Emerging Technologies for Sustainable Developments (NCET-2012) at Department of Technology, Kolhapur 27-28 Dec 2012

➤ International:

- Nandanwar S U, **Naniwadekar M Y**, Sharma R K (2013) "Synthesis of Ag catalyst for liquid phase oxidation of ethylbenzene", 66th Annual Session of Indian Institute of Chemical Engineers, Hosted at ICT Mumbai,, CHEMCON 2013
- Tiwary S, **Naniwadekar M Y**, Tambe S S (2017) "Prediction of Rate Constant of Photocatalytic Degradation of Pharmaceutical Pollutants By Utilizing Artificial Intelligence Based Genetic Programming Formalism", International Conference on Sustainable Development For Energy and Environment (ICSDEE-2017) , Hosted by CSIR-NCL Pune, Maharashtra.
- **Naniwadekar M Y**, Tiwary S, Tambe S S (2017) " Prediction of Cetane Number of Biofuels using Artificial Intelligence based Models", International Conference on NexGen Technologies for Mining & Fuel Industries(NxGnMiFu 2017) at Rashtriya Vigyan Bhavan New Delhi hosted by CSIR-CIMFR Dhanbad.

Course/Seminar/Symposium/Workshop attended

- ✓ “Making Teaching - Learning Process Effective” the workshop was organized by ISTE Chapter & AISSMS COE, PUNE with the Engineering Education Foundation, Pune in Dec. 20-25, 1999.
- ✓ “GLOBALISATION – A Driving Force for Innovative Ideas in Chemical Industries” the workshop was organized by MIT, PUNE dated 9th – 10th Jan. 2004.
- ✓ “Changing Mindset Through Innovative Projects” the workshop was organized by The Institution of Engineers on 24th July 2004.
- ✓ “Sustainable Development in Chemical and Allied Industries” the 20th National Convention of Chemical Engineers by the Institution of Engineers during 4th - 5th September 2004.
- ✓ “Environment and Pollution Awareness” the workshop was organized by D.Y. Patil College of Engineering & sponsored by AICTE on 6th Sept. 2004.
- ✓ “Quality Enhancement in Professional Education & Accreditation” the workshop was organized by Modern College of Engineering, Pune in collaboration with University of Pune.
- ✓ “Recent Developments in Chemical Engineering” the Seminar organized by IICHE Pune Regional Center on 24th March 2005.
- ✓ “Advanced Process Control” the workshop was organized by Sinhgad Institute of Technology & Honeywell India Ltd on 22nd April, 2006.
- ✓ “Process Modelling and Simulation using ASPEN PLUS/ HYSIS” the workshop was organized by MAE Aalandi on 19th May, 2008.
- ✓ “Mission 10X” Workshop was organized by Wipro Technology under ISTE Chapter in Modern College of Engg, Pune from 21st October to 25th October 2008.
- ✓ “Chemical Engineering Laboratory” was the Workshop cum Training Course organized by ICT Mumbai under UGC Networking Resource Centre from 29th May 2009 to 31st May 2009.
- ✓ “Recent Advances on Waste Water Treatment” the workshop was organized by ICT Mumbai under UGC Networking Resource Centre from 16th Dec 2009 to 17th Dec 2009.

- ✓ “Applications of Novel Artificial Intelligence and Machine Learning Techniques for Chemical and Petro-Chemical Industries” the workshop was organized by C- DAC and MIT Pune and sponsored by DST- SERC School during 28th Dec 2009 to 2nd Jan 2010.
- ✓ “AutoDesk and PID Software” the workshop held from 13th Jan 2010 to 14th Jan 2010 Organized by PREC Loni sponsored by AutoDesk USA.
- ✓ “Process Intensification of Chemical Processing Applications” the workshop was organized by ICT Mumbai under UGC Networking Resource Centre from 28th Jan 2011 to 30th Jan 2011.
- ✓ “Recent Advances in Chemical Process Control” the AICTE sponsored Staff Development Program organized by SCOE Pune from 16th May 2011 to 28th May 2011.
- ✓ “Research Methodology” the state level program organized by AISSMS HMCT College on 21st-22nd March 2012.
- ✓ "Workshop on syllabus revision at SE and ME" the program organized by BCUD, SPPU Pune on 26 Feb 2013.
- ✓ "Faculty Development Program" organized by Faculty Training Cell by AISSMS COE Pune on 15th to 17th May 2013
- ✓ "Soft Computing and Its applications in Engineering" organized by Dept of Computer Engineering and UOP Pune on 5-6 Feb 2014
- ✓ "Data Mining and Optimization Techniques in Computer Engineering" Organized by AISSMS COE and SPPU Pune on 11-12 Dec 2014.
- ✓ "Modeling and Simulation of Complex Systems" organized by Venture Center, NCL Pune on 7-9 Jan 2016 "Staff Development Program" Organized by AISSMS COE for Staff development on 22-23 Aug 2016
- ✓ "Adsorptive Separation" organized by MIT Academy of Engg on 18-19 Nov 2016
- ✓ “Certificate of Professional Development hours” Organized by RIL and AIChE in the field of Chemical Process safety. In Sept 2017.
- ✓ “Nanostructured Materials in Catalysis” One week workshop organized by SCOE Pune on 25-29 March 2019.
- ✓ “Data Science” one week workshop organized by MHRD and Shivaji University on 17-22 June 2019.

Course/Seminar/Symposium/Workshop organized

- ✓ Blood Donation Program at College level by Akshay Blood Bank on 7th Sept 2010
- ✓ Organized various cultural programs (approx. 42) at college level as Head of Cultural Dept from 2009 to 2012
- ✓ Organized one day demonstration for college level as member of Fire and safety committee at college level by Fire and Safety Dept, Pune Corporation in Jan 2013
- ✓ "Engineering Today 2007" to "Engineering Today 2016" 3-day event with Department of Chemical Engineering
- ✓ "Alumni Meet-2012" to "Alumni Meet-2016" One day event with College and department level
- ✓ "Department Advisory Committee (DAC)" One day event for department on Jul 2014 as DAC- 2014 and Dec 2016 as DAC-2016
- ✓ “Advances in Heat Transfer” the University of Pune sponsored state level program conducted by AISSMS College of Engineering, Pune from 28th-29th Feb 2012 with Department of Chemical Engineering
- ✓ "Intensification of Chemical Processing using Novel Reactors" state level seminar organized by AISSMS COE and SPPU Pune on 9-10 and 22 Jan 2015 with Department of Chemical Engineering
- ✓ "Industry Institute Interaction Meet-2016" in 19th Sept 2016 with Department of Chemical Engineering
- ✓ "Advances in Chemical Reactor Design" National Seminar on 14-15 Jan, 2017 with Department of Chemical Engineering
- ✓ "Green and Sustainable technology” National Seminar on Jan 2019 with Department of Chemistry

Honors /Achievements

- ✓ Honored as Chief Examiner for 'Dipex 2013' & 'Dipex 2017' at All India State level Engineering Projects' competition.
- ✓ Honored as “Chartered Engineer [India]” by The Institution of Engineers (I) in Chemical Engineering Division
- ✓ Honored by Shri Chhatrapati Malojiraje for successful completion of PhD in Chemical Engineering on the occasion of Hon. Chhatrapati Shahu Jayanti dated 26th June, 2019.

Consultancy

- ✓ Signed MOU with Indian Biodiesel Corporation for the study of Biodiesel process and plant design.
- ✓ Provided design consultancy at Reva Process Pvt. Ltd., Pune
- ✓ Provided design and analysis consultancy to Azeocryst Organics Pvt. Ltd. Talaja

Professional Memberships

- Life Member of Indian Institute of Chemical Engineers (IICHE) - LM-26474
- Life Member of Indian Society for Technical Education (ISTE.) -LM-40748
- Associate Member of Institution of Engineers (India) (AMIE) - AM092859-6