

Dr. Sangeeta S. Metkar
In-charge Head of Department

Total Experience : 21 years
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Academic Qualifications: .
Ph. D. (Chemical Engineering) Dr. B. A. Tech. University, Lonere Raigad.

Research Interests:
- Reaction Kinetics
- Process Control
- Polymerization
- Fluid Rheology
- Modeling and Simulation

Honors and Awards:
- Gold Medal in M. Tech. Chemical Engineering

Courses Taught @ UG:
- Chemical Reaction Engineering
- Transport Phenomena
- Process Dynamics and Control
- Mechanical Operations
- Numerical Methods in Chemical Engineering
- Solid Fluid Operation
- Plant Utilities and Plant Safety
- Project Economics and Plant Management
- Petrochemical Processes
- Petrochemical Engineering- I
- Petrochemical Engineering- III
- Petrochemical Engineering- IV
- Advanced Petroleum Refining
- Chemistry of Petroleum Hydrocarbons

Courses Taught @ PG:
- Advanced Reaction Engineering
- Polymer Reaction Engineering

Paper Published:

- International/ National Journals: 4
- International/National Conferences: 12

Recent Publications:

- Sangeeta Metkar, Vivek Sathe, Imran Rahman, Bhaskar Idage, Susheela Idage," Ring Opening Polymerization of Lactide: Kinetics and Modeling", Chemical Engg. Communication, Vol. 206 (9), 1159-1167, February 2019.
- Sangeeta Metkar, Nikhilesh Bhalerao," The renewable Energy: environmentally Friendly Algae Biofuel", International J. of Environment, Engineering and Education, Vol. 2 (3) 2020.
- Sangeeta Metkar, Vivek Sathe, Imran Rahman, Bhaskar Idage, Susheela Idage, "Kinetics and Validation of Lactide Polymerization", International Symposium on Advances in Sustainable Polymers 2018 (January 8-11) at IIT Guwhati.
- Sangeeta Metkar, Vivek Sathe, Imran Rahman, Bhaskar Idage, Susheela Idage,"Ring Opening Polymerization of L-lactide : Thermodynamic Study",International conference on Polymer Science and Technology, SPSI-MACRO 2018 (December 19-22) at IISER Pune.
- Sangeeta Metkar, Raju Mankar, Imran Rahman, "Molecular weight control of methyl methacrylate polymerization with non linear recursive orthogonal least square adaptive controllers", ALCHEMIST 2017.
- Sangeeta Metkar, Raju Mankar, Imran Rahman, "Control of Methyl Methacrylate Polymerization with Adaptive Controllers", NCITET 2017.
- Raju Mankar, Imran Rahman, Sangeeta Metkar," Model predictive control (MPC) based on recursive least square (RLS) algorithm", CHEMCON 2014.