



Name : Dr. Veena A. Shinde

Qualification : B.E., M.E., Ph.D. Chemical Engineering

Designation : Associate Professor

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Phone : +91 20-24107312

Experience (Years)

Teaching : 29

Research : 16

Portfolio at college level:

1. Institute Level PG coordinator
2. Institute level NBA Criteria 8,9,and 10 In-charge
3. Institute level Coordinator- R&D publication incentives
4. Website coordinator- Department of Chemical Engineering
5. Intel-Unnati Coordinator- Department of Chemical Engineering
6. NAAC Coordinator - Department of Chemical Engineering
7. NIRF Coordinator - Department of Chemical Engineering
8. Guardian Faculty Member

Conferences: National/ International (Participation and publication):

International:

1. R. Vaidya, V.Patil-Shinde, Hybrid Additive- Subtractive Manufacturing Technologies: A Pathway to Sustainable Manufacturing, INSDAM2025, 27-28 March 2025, Kare.

2. D.Verma, P.Goel, V.Patil-Shinde, S.S. Tambe, Use genetic programming for selecting predictor variables and modeling in process identification.Indian Control Conference'16, 4-6 January 2016, IIT Hyderabad.
3. Gadekar, S. V., Kulkarni, K. S., Patil, V. V., and Raut, S. J. Application of Residue Curve Map for Non ideal systems. In *Indo –Italian Brain storming workshop*, 5-6 December 2005, BVDUCOE Pune.

National

1. Shinde, V. A., and Naik, R.V. (2008, December). Mathematical tools for efficient flash calculations in chemical process design: A review. In CHEMCON-2008, 26-30 December 2008, Punjab University Chandigarh.
2. Lakshete, V., Thakur, H., Shinde, S.N., and Shinde, V. A. (2018). Removal of cadmium from aqueous phase by various natural adsorbents. In **SCHEMCON, October 2018, ICT Mumbai**.

Publications: National/ International Journal

International Journal:

1. Kenekar V., Ghugare S., Patil-Shinde V. (2023). Multi-objective optimization of high-shear wet granulation process for better granule properties and fluidized bed drying characteristics. *Powder Technology*, 420, 118373. **(Impact factor-5.64, indexed in Scopus and Web of Science)**
2. Hunasigi, P., Jedge, S., Mane, M., Patil-Shinde V. (2023). MLPNN based models for prediction of the rainfall and reference crop evapotranspiration for meteorological data at Dapoli, Ratnagiri district, India. *Acta Ecologica Sinica*, 43, 154-201.**(Impact factor-0.935, indexed in Scopus)**
3. Patil-Shinde, V., Lakshete, V., Gadekar-Shinde, S. (2023). Biodiesel synthesis from waste sunflower oil: Experimental and Multilayer perceptron neural network modeling. *Materials Today: proceedings* **(Impact factor: 1.46, indexed in Scopus and Web of Science)**
4. Gadekar-Shinde, S., Walekar, P., Patil-Shinde, V. (2023). Separation of C1-C6 alcohol/ester/water system in continuous reactive distillation unit a thermodynamic analysis, *Material Science for Energy Technologies*, 6, 48–64. **(Impact factor: 7.63, indexed in Scopus)**
5. Lakshete, V., Patil-Shinde, V. (2020). Multilayer perceptron neural network based models for the prediction of vapor-liquid equilibrium. *Int. J. Recent Tech. Eng.*, 8(6), 3795- 3801. **(SJR-0.11, ISSN: 2277-3878)**

6. Chavan, P. V.,Thombare, M. A., Bankar, S. B., Kalaga, D. V., Patil-Shinde, V.(2018). Novel multistage solid–liquid circulating fluidized bed: Hydrodynamic characteristics. *Particuology*, 38, 134-142. **(Impact factor-2.787, indexed in Scopus and Web of Science)**
7. Patil-Shinde, V., Kulkarni, T., Kulkarni, R., Chavan, P. D., Sharma, T., Sharma, B. K., Tambe, S. S., and Kulkarni, B. D. (2014). Artificial intelligence-based modeling of high ash coal gasification in a pilot plant scale fluidized bed gasifier. *Industrial & Engineering Chemistry Research*, 53 (49), 18678-18689. **(Impact factor-3.573, indexed in Scopus and Web of Science)**
8. Teli, S. J., and shinde, V.A. (2018). Design Distillation column for separation of Ortho Meta Para Nitro Toluene and optimization using Aspen. *International Journal of Advanced Research in Science and Engineering*, 7(6), 200-214. **(impact factor 2.4, listed in Google scholar)**
9. Patil-Shinde, V., Tambe, S. S. (2017).Genetic programming formalism for prediction of vapor-liquid equilibrium. *CALPHAD*, 60, 68-80. **(Impact factor-1.947, indexed in Scopus and Web of Science)**
10. Patil-Shinde, V., Saha, S., Sharma, B. K., Tambe, S. S., and Kulkarni, B. D. (2016). High Ash Char Gasification in Thermo-Gravimetric Analyzer and Prediction of Gasification Performance Parameters Using Computational Intelligence Formalisms. *Chemical Engineering Communications*, 203 (8), 1029-1044. **(Impact factor- 1.802, indexed in Scopus and Web of Science)**
11. Goel, P., Saurabh, K., Patil-Shinde, V., and Tambe, S. S. (2016). Prediction of^o API Values of Crude Oils by Use of Saturates/Aromatics/Resins/Asphaltenes Analysis: Computational-Intelligence-Based Models. *SPE Journal.*, 22 (03), 817-853. **(Impact factor-3.372, indexed in Scopus and Web of Science)**
12. Verma, D., Goel, P., Patil-Shinde, V., and Tambe, S. S. (2016, January). Use genetic programming for selecting predictor variables and modeling in process identification. In *IEEE explore, 2016 Indian Control Conference (ICC)* (pp. 230-237). IEEE. (ISBN: 978-1-4673-7992-2), doi: 10.1109/INDIANCC.2016.7441133. **(indexed in Scopus and Web of Science)**
13. Patil-Shinde, V., Mulani, K. B., Donde, K., Chavan, N. N., Ponrathnam, S., and Tambe, S. S. (2016). The Removal of arsenite [As (III)] and arsenate [As (V)] ions from wastewater using TFA and TAFA resins: Computational intelligence based reaction modeling and optimization. *Journal of Environmental Chemical Engineering*, 4 (4), 4275-4286. **(Impact factor-4.3, indexed in Scopus and Web of Science)**

14. Kadam, K., and Shinde, V. (2013). Technologies for the control of Sulphur dioxide emissions from coal/pet coke fired boiler. *International Journal of Engineering research & Technology*, 2 (9), 2104-2112. **(ISSN 2278-0181)**.
15. Mahajan, P., Shinde, V. A., Thomas, D., and Mayadevi, S. (2012). Adsorption of toluene and m-xylene on ZSM-5 under reaction conditions. *International Journal of Advances in Chemical Engineering & Technology*, 1(2), 1-11

National Journal:

1. Sharma, A., Rahi, S., Dcruz, A., Shinde, V. A., and Shinde, S. N. (2020). Downstream separation of fusel oil. *Chemical Engineering World*, 55, 67-74. **(Impact factor- 0.091, indexed in Google Scholar)**
2. Saini, S. K., and Shinde, V. A., (2012). Energy conservation and efficiency calculation in chemical process plant. *Journal of Engineering Research and Studies*, 3 (1), 30-33. **(E-ISSN0976-7916)**
3. Bhalla, V., Rajpuri, S. K., Kaul, S. N., and Shinde, V.A., (2008). Experimental methods in high pressure VLE measurement. *Chemical Engineering World*, 43(1), 65-67. **(Impact factor- 0.091, indexed in Scopus and Google Scholar)**
4. Amitabh, K., Ojha, K. R., Sharma, G., and Shinde, V.A. (2007). Vapour-liquid equilibrium study for multi-component system. *Chemical Engineering World*, 42(10), 46-49. **(Impact factor- 0.091, indexed in Scopus and Google Scholar)**
5. Shinde, V.A., and Bhalerao, A. R. (2007). Phase equilibria studies for multicomponent systems. *Chemical Engineering World*, 42(4), 73-75. **(Impact factor- 0.091, indexed in Scopus and Google Scholar)**
6. Raut, S. J., Sadhana, M., Shinde, V. A., and Kaul, S.N. (2007). Thermodynamic equilibrium evaluation of Si-H-Cl system for production of polycrystalline silicon *Chemical Engineering World*, 42(4). **(Impact factor- 0.091, indexed in Scopus and Google Scholar)**

Projects/ Achievements:

(I) Projects

Title of the project: Phase equilibria studies for multi-component systems.

Funding agency: All India Council for Technical Education (AICTE), India

Amount: Rs. 10.5 L

Duration: 2006 - 2009

Status: Completed

(II) Achievements

- **Award:** Recipient of ‘**Career Award for Young Teachers**’ by All India Council for Technical education (**AICTE**) New Delhi, India, in the year 2005-06, with the research grant of Rs. 10.5 lakh.
- Completed Ph.D. from **CSIR-National Chemical Laboratory**, Pune
- Stood **first** in Shivaji University for final year of graduation, B.E.(Chemical),1995 batch
- Recognized **Ph.D guide**- Bharati Vidyapeeth (Deemed to be University), Pune.
- **Coordinator** - Induction Program for First Year MTech Engineering (2025-26), 13th September 2025.
- **Resource person** - Delivered expert lecture on “Process Design of Heat Exchangers” at Chemical Engineering Department, KLE Dr. M. S. Sheshgiri College of Engineering and Technology, Visvesvaraya Technological University, Belagavi, Karnataka, 6th March 2020.
- **External Examiner** to conduct the **Ph.D viva-voce** for the PhD thesis entitled “Studies on development of wine from sugarcane and fruit juice using yeast species”. at Chemical Engineering Department, KLE Dr. M. S. Sheshgiri College of Engineering and Technology, Visvesvaraya Technological University, Belagavi, Karnataka, 6th March 2020.
- **Convener**- Workshop on “Applications of MATLAB” organized by BVDUCOE Pune and CDAC Pune, 18-19 May 2018.
- **Resource person** - ‘National workshop on artificial neural network (ANN) and data modeling’ Vishwakarma Institute of Technology (VIT), Pune, March, 2017.
- **Organizer** for social initiative programme “Engagement of People with Science and Technology” for Mamasahab Mohol Madhyamik Vidyalaya, Warje, Pune, 25th April 2018.
- **Organizer** for National workshop on “Advances in effluent treatment: an industrial perspective” organized by B.V.D.U.C.O.E. Pune, 5-6 October 2018.
- **Professional Memberships**
 - Indian Institute of Chemical Engineers (LM – LM-35670)
 - Indian Society of Technical Education (LM - LM-49176)