



Dr. Babasaheb Ambedkar Technological University

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Vidyavihar, Lonere – Raigad 402 103 (Maharashtra)

Department of Chemical Engineering

Miss Reshma Rohidas Devale

Email. ID: reshmadevale1992@gmail.com

Designation: Assistant Professor

Type of appointment: Contract

Experience: 4 years (Teaching), 2.2 years (Research)



Educational profile:

B. Tech.: Petrochemical Engineering, DBATU, Lonere.

M. Tech.: Chemical Engineering, DBATU, Lonere

Ph.D.: Pursuing Chemical Engineering, DBATU, Lonere

Research interest: Reaction engineering, Process intensification, Catalysis, Modeling and Simulation (Aspen plus)

Most recently taught subjects:

UG: Process Control: Design, Analysis and assessment
Process Dynamics and Control
Chemical Reaction Engineering

PG: Thermodynamics of fluid phase equilibria
Advanced Reaction Engineering
Environmental management

Other Responsibilities:

- Departmental NAAC coordinator (Criteria I)
- Departmental website coordinator

Publications:

(Goggle Scholar: <https://scholar.google.com/citations?user=rO1E11EAAA&hl=en>)

1. Ethyl trifluoroacetate formation as a means to recover trifluoroacetic acid from dilute aqueous mixture: reaction, separation and purification (2023). Journal of the Chinese Institute of Engineers, doi: 10.1080/02533839.2023.2238771.
2. Transesterification of the ethyl ester of trifluoroacetic acid to its methyl ester using Amberlyst-15: reaction and purification. (2023). Chemical Engineering Communications, doi: 10.1080/00986445.2023.2196414.

3. Separation of N-propyl propionate from its highly non-ideal reaction mixture: Distillation using rigorous simulation (2023). *Materials today: Proceedings*, doi: 10.1016/j.matpr.2023.07.291.
4. Manufacture of n-Propyl Propionate Using Ion Exchange Resins: Reaction Kinetics and Feasibility of Reactive Distillation (2022). *Bulletin of Chemical Reaction Engineering & Catalysis*, 17 (4), 811-820, doi: 10.9767/bcrec.17.4.15928.811-820.

National /international conferences:

1. 2nd International Conference on Research and Development in Science, Technology and Management (10th May 2022), IARA in association with Universite Ibn Zohr, Morocco, “Distillation Column Sequencing for the Separation of 2-ethyl hexyl acrylate from its reaction mixture”
2. International Conference on Advances in smart materials, Chemical and Biochemical engineering (16-18 December, 2022), NIT Rourkela, Chem. Eng. Dept., Separation of N-propyl propionate from highly non-ideal reaction mixture: Distillation using rigorous Simulation
3. National conference on Recent advances in Chemical Engineering and Technology (18th March 2023), UICT Jalgaon, Separation of Tetrahydrofuran (THF) - water azeotrope: A critical Review of Methods of Separation