

SONALI PRAVIN JADHAV

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OBJECTIVE:

To utilize my teaching skills towards a challenging career in growth oriented and leading edge that will provide mutual benefits and where from I can utilize my capabilities to the fullest benefits of the organization and society.

PROFESSIONAL EXPERIENCE:

11 years of Teaching experience as Asst. Professor in Chemical Engineering Department at Gharda Institute of Technology, Khed, University of Mumbai from 5th January 2015.

KEY RESPONSIBILITIES HANDLED:

- Subject taught: Process Calculations, Transport Phenomenon, Numerical Methods in Chemical Engineering, Plant Engineering.
- Interested subject: Chemical Reaction Engineering, Process Calculations.
- Preparing teaching material and utilizing it for the progress of students.
- Worked as paper setter and chairman in Mumbai university end semester exams for the subject process calculations, transport phenomena and numerical methods in chemical engineering subjects.
- Serve on academic and administrative committees to deal with institutional policies.
- Worked as Internal complaint committee chairman.
- Handled NAAC criteria 1 and NBA Criterion 3 of chemical department.
- Worked in Facilitation centre for F.E. admission as co-ordinator and document verification.
- Handled responsibilities of Departmental Alumni Association Coordinator, Mentor committee coordinator
- Guided B.E. students for their projects.
- Acted as external in Finolex College of Engineering, Ratnagiri for Fluid Flow, Chemical Reaction Engineering, Numerical Methods in Chemical Engineering

- Acted as mentor for students.
- Coordinated cultural activities.

RESEARCH PAPERS PUBLISHED:

- “Intensified degradation of tartrazine dye present in effluent using ultrasound combined with ultraviolet irradiation and oxidants”, Environmental Monitoring and Assessment 196 (5), 431
- “Intensification of hydrodynamic cavitation induced degradation of Brilliant Blue dye using various additives”, Journal of the Indian Chemical Society 102 (1), 101540
- “Experimental investigation for twisted tape as an augmentation device in plain tube”, Sādhanā 50 (3), 120
- “Degradation of sunset yellow dye using hydrodynamic cavitation and ultrasonic horn assisted by UV irradiation and chemical additives” , Journal of the Indian Chemical Society 103 (2026) 102404
- “Ultrasonic treatment of phthalocyanine pigment containing industrial wastewater intensified using various additives”, Canadian Society for Chemical Engineering. 2026;1–13.

CO-CURRICULAR ACTIVITIES:

- 2025: Attended online five days FDP on “Process Intensification through heat transfer augmentation” organised by Gharda Institute of Technology from 18th to 22nd February 2025.
- 2024: Attended online five days FDP on “Role of nanotechnology in sustainable development” organised by Gharda Institute of Technology from 18th to 22nd October 2024.
- 2023: Presented paper in three days national conference on advances in materials and processes for sustainable applications held in Gharda Institute of Technology from 23rd to 25th March 2023.
- 2023: Participated in the AICTE Recognized Faculty Development Programme on Soft Skills and Classroom Teaching by NITTR.
- 2023: Received Silver Medal in NPTEL online certification course on “Chemical Process Safety”.
- 2021: Received Gold Medal in NPTEL online certification course on “Aspen Plus simulation software – a basic course for beginners”.
- 2021: Attended three days online workshop on “Future of Chemical Engineering” held at IIT Dhanbad from 19th to 21st March 2021.

- 2021: Attended six days Orientation/refresher program on “Computer Aided Software for Process Intensification” held in Gharda Institute of Technology from 24th to 29th May 2021.
- 2021: Attended six days Orientation/refresher program on “Computer Aided Software for Process Intensification” held in Gharda Institute of Technology from 05th to 10th April 2021.
- 2021: Attended six days Orientation/refresher program on “Computer Aided Software for Process Intensification” held in Gharda Institute of Technology from 22nd to 27th February 2021.
- 2020: Attended three days FDP on “Chemical Engineering towards sustainability and process intensification” held in Gharda Institute of Technology from 15th to 17th June 2020.
- 2016: Attended five days short term training program on “Ansys Fluent (CFD) software Training” held in Gharda Institute of Technology from 9th to 13th November 2016.
- 2016: Attended two-day workshop on "Process intensification" held in ICT, Mumbai from September 9 to September 10, 2016.
- 2016: Attended one day symposium on “Recent Advances in Polymer Technology and its Applications” at Gharda Institute of Technology, Lavel.
- 2015: Participated in “Faculty Development Program" organizing by Gharda Institute of Technology, Lavel.
- 2015: Participated in a 3 days’ workshop on “Energy Crisis and Role of Energy Management and Renewable" organizing by Gharda Institute of Technology, Lavel.
- Completed one year & 6th month Teaching Assistantship at Dr. B.A.T.U., Lonere
- Industrial Training of 1 month in “Romit Resins, Rasal, Pali

ACADEMIC PROJECTS:

- Ph.D. : Intensified degradation of persistent organic pollutants through combined advanced oxidation processes
- M.Tech: Modeling and simulation of saponification of Ethyl Acetate using NaOH in ASPEN PLUS
- B.Tech: simulation studies for the production of ethanol from glucose by the fermentation process by using MATLAB

EDUCATION QUALIFICATION:

Doctor of Philosophy (April 2026)

- Institution: Institute of Chemical Technology, Mumbai.

Master of Technology in Chemical Engineering (August 2014)

- Institution: Dr. Babasaheb Ambedkar Technological University, Lonere.
- Class obtained: First Class with Distinction

Bachelor of Engineering in Chemical Engineering (June 2012)

- Institution: Dr. Babasaheb Ambedkar Technological University, Lonere.
- Class obtained: First Class.

EXTRA CURRICULAR ACTIVITIES:

- Participated in different sports like kho-kho, Badminton.

COMPUTER SKILLS:

Simulation Software: Working knowledge of **Aspen plus, Scilab and DWSIM**

PERSONAL PROFILE:

Age	:	35 Years
Birth date	:	04 January 1991
Gender	:	Female
Father's Name	:	Vilas R. Sonawane
Nationality	:	Indian
Marital Status	:	Married
Language known	:	Marathi, Englishi, Hindi

DECLARATION:

I hereby declare that the information furnished above is true to the best of my knowledge.

MRS. SONALI P. JADHAV

