


## Faculty Profile

<b>Name of Faculty :</b> Dr. Amarsinh L. Jadhav		
<b>Designation :</b> Associate Professor & Dean R & D		
<b>Qualification :</b> Ph. D. (Tech) From ICT Mumbai under guidance of Padmashree Prof. G. D. Yadav in Catalysis		
<b>Specialization :</b> Reaction Engg., Mass Transfer, Economics, Catalysis, Pollution Control		
<b>Official Email ID:</b> aljadhav.dypcet@dypgroup.edu.in		
<b>Memberships</b>	ISTE Life member IChE Life member Catalysis Society of India Life member Fellow Indian Chemical Society (FICS)	
<b>Courses Taught</b>	<ul style="list-style-type: none"> <li>• Process Economics &amp; Project Engg.</li> <li>• Chemical Reaction Engg. II</li> <li>• Mass Transfer I</li> <li>• Mass Transfer II</li> <li>• Instrumental Methods of Analysis</li> <li>• Petrochemical Technology</li> <li>• Industrial Pollution Control</li> <li>• Heat Transfer</li> </ul>	
<b>Roles and Responsibilities</b>	<ul style="list-style-type: none"> <li>• Dean R &amp; D</li> <li>• In charge HOD</li> <li>• Academic coordinator</li> <li>• Institute Innovation Cell</li> <li>• Health Club</li> <li>• College IPR cell</li> <li>• Mass Transfer Lab Incharge</li> <li>• Anti ragging committee</li> <li>• Faculty Welfare committee</li> <li>• Academic Audit coordinator</li> <li>• MOU</li> <li>• Consultancy</li> <li>• Parent meet</li> <li>• Course Monitoring committee</li> <li>• NBA Criterion 6 coordinator</li> </ul>	

<p><b>Research Contribution</b></p>	<ul style="list-style-type: none"> <li>• Department Research &amp; Innovation club</li> <li>• <b>Published title of paper (conference/Journal paper) in conference title/Journal name (Year)</b></li> <li>• <b>A. L. Jadhav Prajeet Kadam, Omkar Gavade, M. B. Kulkarni, D. S. Bhutada, S.Radhakrishnan “Comparision of the efficacy of natural adsorbents from jack fruit and coconut shell waste for the adsorption of impurities of dye and water”</b> research paper has been published in peer reviewed <b>Catalysis in Green Chemistry and Engineering</b>, November 2023.</li> <li>• <b>A.L. Jadhav, R. V. Saraf, Aditya Dakore” Bio-reactor Design: Energy Generation from Waste Water Sludge”</b> research paper has been published in peer reviewed <b>Materials Today</b>, March 2021.</li> <li>• <b>Jui Joglekar, A.L. Jadhav, Y. S. Munde” Studies on effective utilization of Citrus Maxima fibers based PVC Composites”</b> research paper has been published in peer reviewed <b>Materials Today</b>, March 2021.</li> <li>• <b>A. L. Jadhav, Prof. G. D. Yadav, “Clean synthesis of benzylidenemalononitrile by Knoevenagel condensation of benzaldehyde and malononitrile: Effect of combustion fuel on activity and selectivity of Ti-hydrotalcite and Zn-hydrotalcite catalysts”</b> research paper has been published in peer reviewed <b>Journal of Chemical Science</b>, June 2019.</li> <li>• <b>A. L. Jadhav, R. S. Malkar, Prof. G. D. Yadav, “Innovative Catalysis in Michael reaction”</b> research paper has been published in peer reviewed <b>Molecular Catalysis journal</b>, June 2020.</li> <li>• <b>A. L. Jadhav, R. S. Malkar, Prof. G. D. Yadav, “Zn and Ti modified Hydrotalcite for Transesterification of Dimethyl Terephthalate with Ethylene Glycol: Effect of the Metal Oxide and Catalyst Synthesis Method”</b> research paper has been published in peer reviewed <b>Journal of American Chemical Society</b>, December 2019.</li> <li>• <b>A. L. Jadhav, Prof. G. D. Yadav, “A Green Process for Selective Hydrolysis of Cinnamaldehyde in Water to Natural Benzaldehyde by Using Ti and Zn Modified Hydrotalcites as Catalysts”</b> research paper has been published in peer reviewed <b>Current Green Chemistry</b> , January 2020.</li> <li>• <b>A. L. Jadhav, Vaibhav Katkar, Prasad Kajave, “Acetonitrile as an Entrainer for Distillation of n-Hexane and Ethyl acetate”</b> research paper has been published in <b>International Journal of Scientific</b></li> </ul>
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Development and Research (IJSDR), July 2020.

- **Jui Joglekar, Y. S. Munde, A.L. Jadhav” Studies on effective utilization of Citrus Maxima fibers based PVC Composites”** research paper has been published in peer reviewed **Materials Today**, November 2020.
- **Jui Joglekar, A.L. Jadhav, Y. S. Munde, DS Bhutada, S Radhakrishnan” Mechanical and morphological properties of Citrus Maxima waste powder filled Low-Density polyethylene composites,”** research paper has been published in peer reviewed **Materials Today**, November 2020.
- **A.L. Jadhav, R. V. Saraf, Aditya Dakore” Energy Generation from Waste Water Sludge”** research paper has been published in peer reviewed **Materials Today**, December 2020.
- **A. L. Jadhav, Prof. G. D. Yadav, “Green Synthesis of 2,3-Oxybutyl Malononitrile Via Michael Reaction of Methyl Vinyl Ketone with Malononitrile over Titania & Zinc loaded Hydrotalcite Catalyst”** research paper has been published in peer reviewed **Catalysis in Green Chemistry & Engineering**, May 2019.
- **A. L. Jadhav, M. A. Patil, “Absorption of Methylene Blue In Waste Water By Absorbent Rice Husk”** research paper has been published in **International Journal of Engineering Research and Technology**., Vol. 10, Issue 1, Sept. 2017, P 1084-1090.
- **A. L. Jadhav, A.N. Magdum, “Review On Extraction On Succinic Acid Using Different Extraction”** research paper has been published in **International Journal of Engineering Research and Technology**, Volume 10, Number 1, Sept. 2017, P 7-12.
- **A. L. Jadhav, Prof. S. V. Anekar, “Manufacturing of Butyl Oleate (Bio-Diesel) by using Reactive Distillation”** research paper has been published in **International Journal of Research in Engineering & Technology (IJRET)**, Vol (3), January 2017, P 49-55.

#### **Patent Granted/ Published**

- Australian Patent filed on “An ICT based System and Framework for Monitoring Social Distancing” on 15<sup>th</sup> June 2021 (Reference No. 2021103373) with co inventor Patil, Rakesh; Joshi, Manish; Thakkar, Kinnarry; Rao, Datrika Venkata; Painoli, Girish;
- Registered (Granted) Indian patent on “Water

	<p>purification, algae-based filtration, including jackfruit-based. Adsorbents on 15<sup>th</sup> March 2023 (Application No. 375100-001)</p> <ul style="list-style-type: none"> <li>• Utility Patent published on “Smart water Purification System using natural Organic waste as an adsorbent to Reduce Water Contamination 2023 (Application No. 202321029656) on 8<sup>th</sup> December 2023.</li> </ul>
<p><b>FDP/Workshop Attended</b></p>	<ul style="list-style-type: none"> <li>• <b><u>Attended the FDP/Workshop on name of FDP/workshop during start date-end date</u></b></li> <li>• Attended workshop on <b>Sustainable Development through Green Technology, SusChem E23</b> organized by ICT, Mumbai on 14<sup>th</sup> &amp; 16<sup>th</sup> October 2023</li> <li>• Attended workshop on <b>Sustainable Development through Green Technology</b> organized by Bharati Vidyapeeth Deemed University, College of Engg., Pune on 28<sup>th</sup> &amp; 29<sup>th</sup> April 2019</li> <li>• Organized AICTE approved one week workshop on <b>Sustainable Development through Green Technology</b> organized by our department on 7<sup>th</sup> to 15<sup>th</sup> December 2019.</li> <li>• Attended many online workshops and seminars during year 2020-21 during COVID-19.</li> <li>• Attended seminar on ‘<b>Recent Trends in Solar Thermal System &amp; its Scope in India</b>’ organized by Dept. of Electrical Engg., AISSMS College of Engg., Pune on 21<sup>st</sup> &amp; 22<sup>nd</sup> Feb. 2019</li> <li>• Organized and conducted two Day <b>Workshop on Gas Chromatography</b> for Students between 16<sup>th</sup> – 17<sup>th</sup> March 2019.</li> <li>• Attended workshop on <b>Sustainable Development through Green Technology</b> organized by Bharati Vidyapeeth Deemed University, College of Engg., Pune on 28<sup>th</sup> &amp; 29<sup>th</sup> April 2019.</li> <li>• Attended workshop on <b>Aspen plus Software</b> organized by D. Y. Patil Collage of Engg &amp; Tech., Kolhapur on 5<sup>th</sup> to 11<sup>th</sup> March 2019.</li> </ul>
<p><b>Awards</b></p>	<ol style="list-style-type: none"> <li>1. Best Paper award in International conference at Sanjeevan Engineering college, Panhala, Kolhapur,2021</li> <li>2. Best Paper award at “Confluence “MIT college, Pune,2017</li> <li>3. Global Iconic Education award as Best Researcher by ESN Publication, Tamilnadu, 2022</li> </ol>

	4. Best Secretary Award, Rotary Karveer, 2009
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