


## Faculty Profile

<b>Name of Faculty</b> : Dr. Rahul Appasaheb Patil		
<b>Designation</b> : Associate Professor		
<b>Qualification</b> : Ph. D.		
<b>Specialization</b> : Modeling & Simulation, Energy Conservation, Biomass		
<b>Official Email ID</b> : rapatil.dypcet@dypgroup.edu.in		
<b>Memberships</b>	<b>The Indian Society For Technical Education- LM 73882</b> <b>Indian Institute of Chemical Engineers- LM70785</b>	
<b>Courses Taught</b>	<ul style="list-style-type: none"> <li>• <b>Modeling and Simulation in Chemical Engg.</b></li> <li>• <b>Mechanical Unit Operations</b></li> <li>• <b>Energy Conservation and Recovery</b></li> <li>• <b>Computer Techniques in Chemical Engineering</b></li> <li>• <b>Fluid Flow Machinery Laboratory</b></li> <li>• <b>Professional Skill Development</b></li> </ul>	
<b>Roles and Responsibilities</b>	<ul style="list-style-type: none"> <li>• <b>Dean, Student Affairs</b></li> <li>• <b>Academic Council Member</b></li> <li>• <b>Board of Examination Member</b></li> <li>• <b>Admission Committee</b></li> <li>• <b>NSS Coordinator</b></li> <li>• <b>Adventure Club Member</b></li> <li>• <b>Inter Evaluation Committee</b></li> <li>• <b>Aspen Software Coordinator</b></li> <li>• <b>SY Class Coordinator</b></li> <li>• <b>Department Activity Record</b></li> <li>• <b>FFO Lab In Charge</b></li> <li>• <b>Criteria 5 Coordinator</b></li> <li>• <b>Internal Examination Coordinator</b></li> <li>• <b>Faculty Information Record</b></li> </ul>	
<b>Research Contribution</b>	<ul style="list-style-type: none"> <li>• “Parametric studies of degradation of reactive red 120 by a novel approach of hydrodynamic cavitation”, <i>Materials Today: Proceedings</i>, Elsevier Volume 80, Part 2, 18<sup>th</sup> Nov. 2022, 744-746, <a href="https://doi.org/10.1016/j.matpr.2022.11.080">https://doi.org/10.1016/j.matpr.2022.11.080</a></li> <li>• “Briquetting of Dry Sugarcane Leaves by Using Press</li> </ul>	

	<p>Mud. Cow Dung, and Buffalo Dung as Binders”, International Journal of Chemical Engineering, Hindawi, Volume 2021, Article ID 8608215, 27<sup>th</sup> May 2021, 1 – 12, <a href="https://doi.org/10.1155/2021/8608215">https://doi.org/10.1155/2021/8608215</a></p> <ul style="list-style-type: none"> <li>• “Parametric studies of bio ethanol synthesis from lignocelluloses biomass using enzymatic treatment”, Pensee Journal, Volume 50, Issue 12, Dec 2020, 42 – 55, P-0031-4773</li> <li>• “To Study the Effect of Pretreatment on Dry Sugarcane Leaves”, IOP Conference Series: Material Science &amp; Engineering ,Institute of Physics (IOP), 577 (2019) 012017, Dec, 2019, 1-7, 577 (2019) 012017, doi:10.1088/1757-899X/577/1/012017</li> <li>• “To Study the Effect of Mechanical Comminution on Lignin Percentage and Calorific Value of Dry Sugar Cane Leaves”, Materials Today: Proceedings, Elsevier, 5 (2018) October, 2018, 18135–18141, <a href="https://doi.org/10.1016/j.matpr.2018.06.149">https://doi.org/10.1016/j.matpr.2018.06.149</a></li> <li>• “Comparison of Different Varieties of Dry Sugarcane Leaves for Making Briquettes”, International Journal of Creative Research Thoughts (IJCRT), Volume 8, Issue 7, July 2020, 1581-1589</li> <li>• Manufacturing of Biological Soap Using Microorganism, International Journal of Research and Analytical Reviews (IJRAR), Volume 10, Issue 1, March 2020, 335-337</li> </ul>
<p><b>FDP/Workshop Attended</b></p>	<ul style="list-style-type: none"> <li>• FDP on Recent Advances in Chemical Engineering, Dept. of Chemical Engineering, JDIET, Yavatmal, 26<sup>th</sup> to 30<sup>th</sup> Dec. 2023</li> <li>• FDP on Sustainable Energy Management, Dr. D. Y. Patil Institute of Engineering, Management and Research, Akurdi, Pune, 18<sup>th</sup> to 22<sup>nd</sup> July 2023</li> <li>• FDP on Recent Trends in Environment, Health &amp; Safety Aspects in Industries, Dept. of Chemical Engg., D. Y. Patil College of Engg. &amp; Tech., Kolhapur, 27<sup>th</sup> to 31<sup>st</sup> March 2023</li> <li>• FDP on NEP 2020 in Creating Engaging Environment for Learning &amp; Technology Leadership, RPG Foundation, Zensar, 10<sup>th</sup> to 12<sup>th</sup> March 2023</li> <li>• FDP on Equipment Design: Mechanical Aspects, IIT, Roorkee, July to Aug. 2022</li> <li>• FDP on Sustainable Manufacturing Management, Dept of Chemical &amp; Civil Engg.,Dr. D.Y. Patil Institute of Engineering,Management &amp; ResearchAkurdi, Pune, 11th to 15th July 2022</li> </ul>

	<ul style="list-style-type: none"> <li>• FDP on Nanotechnology: Synthesis, Characterization &amp; Applications of Nanomaterials in Engineering &amp; Science, Dept. of Mechanical Engg., Bharati Vidyapeeth's College of Engg., Kolhapur, 17<sup>th</sup> to 22<sup>nd</sup> Jan. 2022</li> <li>• FDP on Aspen Plus Simulation Software-a Basic Course for Beginners, IIT, Guwahati, July-Oct. 2021</li> <li>• FDP on Advances in Chemical Engineering, Dept. of Chemical Engg., JNEC, MGM University, Aurangabad, 24<sup>th</sup> to 26<sup>th</sup> May 2021</li> <li>• FDP on Computer Science &amp; Biology, AICTE, New Delhi, 18<sup>th</sup> to 22<sup>nd</sup> Jan. 2021</li> <li>• FDP on Recent Advancements in Nanoparticles, Films &amp; membranes, Dept. of Chemical Engg., Siddaganga Institute of Technology, Tumakur, 10<sup>th</sup> to 14<sup>th</sup> Aug. 2020</li> <li>• FDP on Enhancing Teaching Skills for Outcome Based Education, D. Y. Patil College of Engg. &amp; Tech., Kolhapur, 18<sup>th</sup> to 22<sup>nd</sup> Dec. 2019</li> <li>• STTP on Reactive Separations: Fundamentals Through Modeling &amp; Simulation, AICTE Sponsored BATU, Lonere, PVPIT, BudgaonSangali, 23<sup>rd</sup> to 27<sup>th</sup> Dec. 2019</li> <li>• AICTE-QIP Short Term Course on Numerical Techniques for Chemical Process Simulations, IIT, Kharagpur, 20<sup>th</sup> to 26<sup>th</sup> Dec. 2017</li> <li>• Summer School on Recent Developments in Bioprocess Technology &amp; Opportunities (RDBTO) , AICTE Sponsored and Department of Biotechnology Engineering KIT's College of Engg., Kolhapur, 3<sup>rd</sup> to 13<sup>th</sup> June 2015</li> <li>• Training on Facilitator Certification in HRD, CLHRD, Mangalore, 10<sup>th</sup> –22<sup>nd</sup> May 2007</li> <li>• Workshop on Introduction to DWSIM (Open Source Simulation Software), Dept. of Chemical Engg., D. Y. Patil College of Engg. &amp; Tech., Kolhapur, 17<sup>th</sup> to 18<sup>th</sup> April 2021</li> <li>• Workshop on Modeling and Simulation of Heat Transfer Equipments Using Aspen Plus, Chemical EngineeringDepartment of PVPIT, Budhgaon, Sangli, 16<sup>th</sup> to 20<sup>th</sup> March 2021</li> <li>• Workshop on Intellectual Property Rights (IPR)Awareness : Patent Drafting and Filing, Research and Development Cell, BharatiVidyapeeth, College of Engg., Pune, 23<sup>rd</sup> to 25<sup>th</sup> July 2020</li> <li>• Workshop on A National level workshop held under the National Mission on Education through ICT (MHRD) on</li> </ul>
--	--

	<p>Engineering Mechanics, IIT, Bombay, (ISTE approved), D. Y. Patil Collage of Engg&amp;Tech., Kolhapur, 26<sup>th</sup> Nov. – 6<sup>th</sup> Dec. 2013</p>
--	--