

Name of Teaching Staff	: Prof. Vinit Katira	
Designation	: Assistant Professor	
Department	: Mechanical Engineering	
Date of Joining the Institution	: 08.07.2014	
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Qualifications with Class / Grade	: M. Tech (Thermal Engineering) – Sardar Patel College of Engineering, Andheri, Mumbai (CPI: 8.17/10)  B.E. (Mechanical Engineering) – K. J. Somaiya College of Engineering, Vidya Vihar, Mumbai	
Total Experience in Years	: <b><u>Teaching:</u></b> Assistant Professor – D. J. Sanghvi College of Engineering, Mumbai, July 2014 to till date  <b><u>Research:</u></b> Research Assistant: Department of Mechanical Engineering, I. I. T. Bombay, Powai, 400 076, India, July 2012 – July 2014	
Papers Published in Journal:	: <b><u>National &amp; International Journals:</u></b> [1] Adwait Sawant, Meher Dev Gudela, Ajit Karnik and Vinit Katira, "Design and Analysis of a Pneumatically Actuated Drag Reduction System," SAE Technical Paper 2021-01-5080, 2021, <a href="https://doi.org/10.4271/2021-01-5080">https://doi.org/10.4271/2021-01-5080</a> .  [2] Ruchit Doshi, Shakshi Himmatramka, Janam Sanghavi, Jahnvi Patel and Vinit Katira, "Automobile Radiator Design and Validation", International Research Journal of Engineering and Technology, vol. 05 issue 11 (2018) pp. 1358 – 1365	

Papers Presented in Conferences	<p>[1] “Design and Performance Evaluation of a Cost-Effective Radiant Cooling System” in “International Conference on Intelligent Manufacturing and Automation 2020”, pp. 777-789.</p> <p>[2] “Design, Analysis and Optimization of a Single-Pass Straight Pipe Resonator for an Exhaust System of a Single Cylinder Engine” in “International Conference on Intelligent Manufacturing and Automation 2020”, pp. 603-613.</p> <p>[3] “Analysis and Manufacturing of Aerodynamic Components” in “International Conference on Intelligent Manufacturing and Automation 2020”, pp. 187-199.</p>			
Area of Specialization	:	HVAC, Radiant Heating & Cooling, Automotive propulsion & safety systems, Power engineering.		
Books Published / IPRs / Patents	:	<table border="1"> <tr> <td>Design Patent</td> <td> <b>Design patent:</b>  Title: Intake Manifold For Two - Wheeler Engines  Design number: 318182-001  Date of registration: 28/05/2019 </td> </tr> </table>	Design Patent	<b>Design patent:</b> Title: Intake Manifold For Two - Wheeler Engines Design number: 318182-001 Date of registration: 28/05/2019
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Professional Memberships	:	<table border="1"> <tr> <td>Member of Professional Society:</td> <td>Life Member of Indian Society of Manufacturing Engineers (ISME)</td> </tr> </table>	Member of Professional Society:	Life Member of Indian Society of Manufacturing Engineers (ISME)
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Interaction with Professional Institutions	:	<table border="1"> <tr> <td>Other Achievements and Responsibilities:</td> <td>Organizing committee of 3 day Webinar Series on “Emerging Frontiers of Research in Energy Systems” at DJSCE, August 2021</td> </tr> </table>	Other Achievements and Responsibilities:	Organizing committee of 3 day Webinar Series on “Emerging Frontiers of Research in Energy Systems” at DJSCE, August 2021
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Subjects Taught	:	<p><b>UG Level:</b></p> Refrigeration & Air-conditioning Internal Combustion Engines Automobile Engineering Thermal & Fluid Power Engineering Mechanical Utility Systems Power Engineering Automotive Prime Movers		
Projects Guided	:	<p><b>UG Level:</b> more than 15</p> <p>Some of UG Project Guided:</p> <ol style="list-style-type: none"> <li>1. Design and Analysis of a Hybrid Drivetrain</li> <li>2. Design, analysis and weight optimization of suspension system of an off-road vehicle</li> <li>3. Design and analysis of a torque converter using an electro-hydraulic system</li> <li>4. Engine Management System and optimization of Intake and Exhaust System of a Formula styled car</li> <li>5. Automated removal of Burnished surface on Deep Drawn blanks</li> <li>6. Optimization of suspension wishbone by use of carbon fibre reinforced plastic for Formula Student car</li> <li>7. Design and manufacturing of 3D printer prototype</li> <li>8. Design and Shape Optimization of Vertical Axis Wind Turbine for Highways</li> </ol>		

Recommended Students for Higher Education	:	<u><b>Name of the Student</b></u> More than 70 students for PG studies	<u><b>University/Industry</b></u> Various Universities across USA, Canada & Germany
Institute/Department Responsibility handled:	:	<ul style="list-style-type: none"> <li>• Exam conduction team member of the Institute</li> <li>• Admission committee member</li> <li>• Project coordinator at Dept. level</li> <li>• Industrial visit coordinator at Dept. level</li> <li>• Faculty advisor to DJS Racing Team of SAE DJSCE</li> </ul>	
Pedagogy Development	:	E-learning video for the courses of Refrigeration & Air-conditioning and Power Engg.	