

## BIO-DATA



1.	<b>Name</b>	Suvarna Rode				
2.	<b>Designation</b>	Assistant Professor				
3.	<b>Residential Address</b>	Vashi, Navi Mumbai.				
4.	<b>Total Experience</b>	17 years and 1 month				
i.	<b>Teaching</b>	14 years and 04 months				
ii.	<b>Industrial</b>	2 Years and 9 months				
5.	<b>Qualifications</b>					
	<b>Exam Passed</b>	<b>Year</b>	<b>Institution/ University</b>	<b>Branch/Specialization</b>	<b>Percentage/CGPI</b>	
	M.E.	2015	Mumbai University	Mechanical Engineering (Machine Design)	8.59	
	B. E.	2006	Shivaji University	Production Engineering	63%	
<b>Additional Qualification:</b>						
6.	<b>Employment Record</b>					
	<b>Institution</b>	<b>Year (From To)</b>		<b>Designation</b>		
	F.C.R.I.T. Vashi	June 2017 - till date		Assistant Professor		
	F.C.R.I.T. Vashi	January 2011 to June 2017		Lecturer		
	V.J.T.I., Mumbai	Jan. 2010 – to Dec. 2010		Lecturer		
	Lear India Automotive PVT LTD	January 08 – December 09		Jr. CAD Design Engineer		
	Montech CAD/CAM Services	April 07 -December 07		CAD Designer		
7.	<b>Undergraduate / Postgraduate Teaching Experience and Subjects Taught</b>					
	<b>Subjects Taught at UG level</b>					
	<b>Sr.No.</b>	<b>Name of Subject</b>			<b>Semester</b>	
	1	CAD/CAM/CAE			VII	
	2	Engineering Drawing			II	
	3	CAD/CAM			IV	
	4	Material Technology			IV	
	5	MMC			V	
	6	Control Systems			VI	
	7	CAD Modeling Skill based Lab			III	
	<b>Subjects Taught at PG level</b>					
	<b>Sr.No.</b>	<b>Name of Subject</b>			<b>Semester</b>	
	1	CAD LAB :- For M.E. Mechanical (M/C Design and CAD/CAM)			II	
	2	CAD CAM LAB: - For M.E. Mechanical			II	
8.	<b>Research Experience</b>					
9.	<b>Research Funding / Consultancy Services:</b>					
	<b>Sr.No.</b>	<b>Name of the Company</b>	<b>Address</b>	<b>Product</b>	<b>Consulting Service</b>	<b>Consulting Fees</b>

	<b>Research Grants:</b>					
	Sr.No.	Name of Funding Organization	Type of Grant	Amount (Rs.)	Year	Name of Research Project
	<b>Technical Collaboration / Lab Funding with Industries</b>					
	Sr.No.	Name of the Funding Organization	Type of Support	Amount (Rs.)	Year	
<b>10.</b>	<b>Professional Societies Fellowship / Membership</b>					
<b>11.</b>	<b>Achievements / Awards / Position</b> WorldSkills 2013, Leipzig, Germany Acted as an Expert for the skill “Mechanical Engineering Design-CAD” at WorldSkills 2013 Competition held during 2nd to 7th July, 2013 at Leipzig, Germany. Accompanied Mr. Varad Patil, a student of final year mechanical engineering of F.C.R.I.T. Vashi who represented India as a competitor in “Mechanical Engineering Design-CAD” skill at WorldSkills 2013.					
<b>12.</b>	<b>Projects guided in UG/PG level</b> <ul style="list-style-type: none"> <li>• Damage detection on surface of aluminium beam structure using Flexure waves. (2015-16).</li> <li>• Non-destructive testing of thin plates using ultrasonic guided waves. (2016-17).</li> <li>• Development of a Rapid Prototyping machine based on Fused Deposition Modelling Technique. (2017-18).</li> <li>• Design and Development of 3d Scanner (2018-19).</li> <li>• To Design and Fabricate A 3-D Scanning System for Biomedical Purposes Using Photogrammetry &amp; Optical Computed Tomography (2019-20).</li> <li>• Design and development of a system for variable bead size deposition in FDM (2020-21).</li> <li>• Designing and fabrication of an automated anchoring system for STS cranes from failure due to high speed winds. (2021-22).</li> <li>• Design approach, Material testing, crack detection, and analysis for structural integrity. (2022-23).</li> <li>• Design and fabrication of underwater drone for cargo transportation. (2022-23).</li> <li>• Design and Development of Autonomous Underwater Vehicle for CARGO. (23-24)</li> </ul>					
<b>13.</b>	<b>Short Term Training Programmes attended</b> <ul style="list-style-type: none"> <li>• AICTE/ISTE Sponsored Refresher Program on "Additive Manufacturing - 3D Printing".</li> <li>• Python Programming and its Interdisciplinary Applications.</li> <li>• Advanced Research Challenges in Material Science.</li> <li>• AICTE Training and Learning (ATAL) Academy Augmented Reality (AR)/ Virtual Reality (VR).</li> <li>• Intercollegiate National Level Training Program entitled “Pluto Drone”</li> <li>• Certificate Course in Sheet-metal Design in Inventor</li> <li>• Three days’ faculty development program on fusion 360 sponsored by AUTODESK and Organised by FCRIT Vashi.</li> <li>• Hands-on Workshop on Additive Manufacturing and Reverse Engineering, Organised by National Centre for Additive Manufacturing (NCAM) along with IDEMI Mumbai.</li> </ul>					
<b>14.</b>	<b>List of Journal Papers Published</b> <ol style="list-style-type: none"> <li>1. "Some new algorithms for locating a damage in thin plates using lamb waves" in Engineering Research Express (2019) 015027, IOP Publishing, 29 August 2019</li> </ol>					
<b>15.</b>	<b>List of Papers Published in National and International Conferences</b> <ol style="list-style-type: none"> <li>1. “Damage Detection in a Thin Aluminium Plate Using Lamb Wave Based Time Reversibility Technique”, ISSS National Conference on MEMS Smart Materials, Structures and Systems, Kochi, India, September 23-25, 2015.</li> <li>2. “Development of a Lamb Wave Based Algorithm for Detecting a Damage in Thin Plate Structures”, ISSS International Conference on Smart Materials, Structures and Systems. July 5-7, 2017, Bangalore, India, July 5-7, 2017.</li> <li>3. “Damage Detection in Beam Structures Using Guided Waves”, NDE 2017 Conference &amp; Exhibition of the Indian Society for NDT (ISNT), 14-16 December 2017, Chennai, T.N., India.</li> <li>4. ” Design and Development of 3d Scanner”, 6th International Conference on Production</li> </ol>					

<p>and Industrial Engineering (Cpie-2019), 8 to 10th June 2019.</p> <ol style="list-style-type: none"><li>5. "Design and Fabrication of a 3D scanning system using Optical Computed Tomography and Photogrammetry", Agnel Charities' Fr. C. Rodrigues Institute of Technology, IEEE &amp; IAS Technically Co-Sponsored 4th Biennial International Conference on Nascent Technologies in Engineering ICNTE - 2021 January 15-16, 2021.</li><li>6. "Design and Fabrication of IoT based Agricultural Automation system", Agnel Charities' Fr. C. Rodrigues Institute of Technology, IEEE &amp; IAS Technically Co-Sponsored and Sponsored by AICTE, 5th Biennial International Conference on Nascent Technologies in Engineering 2023.</li><li>7. Design and Simulation of a System for Variable Bead Size Deposition in FDM", Virtual International Conference on Product Design, Development, and Deployment (PD3 - 2021) 11th &amp; 12th SEPTEMBER 2021.</li><li>8. "Development of a portable rapid prototyping machine based on fused deposition modeling process", 7th International Conference On Production and Industrial Engineering (Cpie-2023), at: Dr B R Ambedkar National Institute Of Technology Jalandhar-144027, India.</li><li>9. "Development of solar powered electric vehicle prototype", 7th International Conference On Production and Industrial Engineering (Cpie-2023), at: Dr B R Ambedkar National Institute Of Technology Jalandhar-144027, India.</li><li>10. "Design and Fabrication of Underwater Drone for Cargo Transportation", International Conference on Mechanical Engineering and Technology ICMET 2024, National Institute of Technology, Kurukshetra, Haryana, India, Mar. 1-3, 2024</li></ol>
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