

BIO-DATA



1.	Name	Suvarna Rode					
2.	Designation	Assistant Professor					
3.	Residential Address	Vashi, Navi Mumbai.					
4.	Total Experience	18 years and 2 month					
i.	Teaching	15.5 years					
ii.	Industrial	2 Years and 9 months					
5.	Qualifications						
	Exam Passed	Year	Institution/ University	Branch/Specialization	Percentage/CGPI		
	M.E.	2015	Mumbai University	Mechanical Engineering (Machine Design)	8.59		
	B. E.	2006	Shivaji University	Production Engineering	63%		
Additional Qualification:							
6.	Employment Record						
	Institution	Year (From To)		Designation			
	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.	Undergraduate / Postgraduate Teaching Experience and Subjects Taught						
	Subjects Taught at UG level						
	Sr.No.	Name of Subject			Semester		
	1	CAD/CAM/CAE			VII		
	2	Engineering Drawing			II		
	3	CAD/CAM			IV		
	4	Material Technology			IV		
	5	CAD Modeling Skill based Lab			III		
	6	Material Testing Lab			III		
	7	Material Science and Engg.			III		
	8	Manufacturing Technology			IV		
	Subjects Taught at PG level						
	Sr.No.	Name of Subject			Semester		
	1	CAD LAB :- For M.E. Mechanical (M/C Design and CAD/CAM)			II		
8.	Research Experience						
9.	Research Funding / Consultancy Services:						
	Sr.No.	Name of the Company	Address	Product	Consulting Service	Consulting Fees	Period

	Research Grants:					
	Sr.No.	Name of Funding Organization	Type of Grant	Amount (Rs.)	Year	Name of Research Project
	Technical Collaboration / Lab Funding with Industries					
	Sr.No.	Name of the Funding Organization	Type of Support	Amount (Rs.)	Year	
10.	Professional Societies Fellowship / Membership					
11.	Achievements / Awards / Position 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.					
12.	Projects guided in UG/PG level <ul style="list-style-type: none"> • Damage detection on surface of aluminium beam structure using Flexure waves. (2015-16). • Non-destructive testing of thin plates using ultrasonic guided waves. (2016-17). • Development of a Rapid Prototyping machine based on Fused Deposition Modelling Technique. (2017-18). • Design and Development of 3d Scanner (2018-19). • To Design and Fabricate A 3-D Scanning System for Biomedical Purposes Using Photogrammetry & Optical Computed Tomography (2019-20). • Design and development of a system for variable bead size deposition in FDM (2020-21). • Designing and fabrication of an automated anchoring system for STS cranes from failure due to high speed winds. (2021-22). • Design approach, Material testing, crack detection, and analysis for structural integrity. (2022-23). • Design and fabrication of underwater drone for cargo transportation. (2022-23). • Design and Development of Autonomous Underwater Vehicle for CARGO. (23-24) • Development of a 3D printed life size replica of a bone, from scan data. (23-24) • Design and fabrication of an IR sensor based 3D scanner. (23-24) 					
13.	Short Term Training Programmes attended <ul style="list-style-type: none"> • AICTE/ISTE Sponsored Refresher Program on "Additive Manufacturing - 3D Printing". • Python Programming and its Interdisciplinary Applications. • Advanced Research Challenges in Material Science. • AICTE Training and Learning (ATAL) Academy Augmented Reality (AR)/ Virtual Reality (VR). • Intercollegiate National Level Training Program entitled “Pluto Drone” • Certificate Course in Sheet-metal Design in Inventor • Three days’ faculty development program on fusion 360 sponsored by AUTODESK and Organised by FCRIT Vashi. • Hands-on Workshop on Additive Manufacturing and Reverse Engineering, Organised by National Centre for Additive Manufacturing (NCAM) along with IDEMI Mumbai. 					
14.	List of Journal Papers Published <ol style="list-style-type: none"> 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. List of Book Chapter Published <ol style="list-style-type: none"> 1. “Development of Solar-Powered Electric Vehicle Prototype”, Pages 175-183, Recent Advances in Operations Management and Optimization - Select Proceedings of CPIE 2023- Part of the book series: Lecture Notes in Mechanical Engineering. 					
15.	List of Papers Published in National and International Conferences <ol style="list-style-type: none"> 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. 2. “Development of a Lamb Wave Based Algorithm for Detecting a Damage in Thin Plate 					

	<p>Structures”, ISSS International Conference on Smart Materials, Structures and Systems. July 5-7, 2017, Bangalore, India, July 5-7, 2017.</p> <p>3. “Damage Detection in Beam Structures Using Guided Waves”, NDE 2017 Conference & Exhibition of the Indian Society for NDT (ISNT), 14-16 December 2017, Chennai, T.N., India.</p> <p>4. ” Design and Development of 3d Scanner”, 6th International Conference on Production and Industrial Engineering (Cpie-2019), 8 to 10th June 2019.</p> <p>5. “Design and Fabrication of a 3D scanning system using Optical Computed Tomography and Photogrammetry”, Agnel Charities’ Fr. C. Rodrigues Institute of Technology, IEEE & IAS Technically Co-Sponsored 4th Biennial International Conference on Nascent Technologies in Engineering ICNTE - 2021 January 15-16, 2021.</p> <p>6. “Design and Fabrication of IoT based Agricultural Automation system”, Agnel Charities’ Fr. C. Rodrigues Institute of Technology, IEEE & IAS Technically Co-Sponsored and Sponsored by AICTE, 5th Biennial International Conference on Nascent Technologies in Engineering 2023.</p> <p>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 & 12th SEPTEMBER 2021.</p> <p>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.</p> <p>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.</p> <p>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</p>
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