BIO-DATA

1.	Name	Suvarna Rode
2.	Designation	Assistant Professor
3.	Residential Address	Vashi, Navi Mumbai.
4.	Total Experience	17 years and 9 month
i.	Teaching	15 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

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** • 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** • 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** 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** 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** 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 Structures", ISSS International Conference on Smart Materials, Structures and Systems.

July 5-7, 2017, Bangalore, India, July 5-7, 2017.

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.

4. " Design and Development of 3d Scanner", 6th International Conference on Production and Industrial Engineering (Cpie-2019), 8 to 10th June 2019.

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.

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.

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.

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.

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.

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