BIO-DATA

1. **Name** Suvarna Rode
2. **Designation** Assistant Professor
3. **Residential Address** Vashi, Navi Mumbai.
4. **Total Experience** 16 years and 3 month
   - i. **Teaching** 13 years and 10 months
   - 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	MMC	V
6	Control Systems	VI
7	CAD Modeling Skill based Lab	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
2	CAD CAM LAB: - For M.E. Mechanical	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).

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.

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

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.