

Name: Dr. Shubhangi M. Gondane



Contact Details:

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+919326062418

Educational Qualifications:

- Ph.D. (Mechanical Engineering), Rashtrasant Tukadoji Maharaj Nagpur University ,Nagpur 2022
- M.Tech. (Mechanical Engineering Design), Rashtrasant Tukadoji Maharaj Nagpur University ,Nagpur 2009
- B.E. (Production Engineering), Nagpur University ,Nagpur 2004

Experience:

- Teaching:20 Years
- Industrial:3.10 Years
- Research: 02 years

Research Interests:

- Machine Design and Mechanisms
- Industrial Engineering and Management
- Manufacturing Technologies
- Engineering Graphics and Machine Drawing

Research Projects:

Title: Development of suitable adhesives for Bamboo Joinery for small Mechanical Applications.

Number of Publications:

International Journal: 14

National Journal: 03

International Conference: 08

National Conference: 01

Patents:

1. Laboratory Level Integrated Mechanical Power Transmission Device For Research and Education (Published on 07/11/2025)
2. Power Transmission Machine, certificate of registration of design (Published on 11/05/2023)

Copyright: Design and Fabrication of Multipurpose screening machine for small scale industries. 03-07-2021

Books Published/ Book Chapters:

- Fluid Mechanics and Fluid Power “Investigation of Experimental Data of Linkage Involving Adhesive Joint” in 2024, Volume 6,pp 651-659
- Recent Advances in Machines and Mechanisms “Experimental Data- Based Model of Fracture of Adhesive Joint for a link of Mechanisms Made from Bamboo”in 2022 pp 735-745

Recognition/ Awards:

- She Inspire ‘Women of Substance’- Women in Technology and Innovation awards – International Women’s Day -2025
- ISTE award of Maharashtra & Goa Section for Best Women Teaching Faculty in Engineering - 2022 (Annual Faculty Convention)
- Best Paper award in International Conference on Adopting Green Initiatives for Sustainability (ICAGIS- 2022) organized by Priyadarshini College of Engineering, August 24-25, 2022.
- Best Paper award in International Conference on Recent Trend in ML and AI in the field of Science and Technology (E-IGAIML-20) organized by Tulasiramji Gaikwad Patil College of Engineering & Technology, Nagpur 27th-28th Nov. 2020

Professional Society Memberships:

- Institute of Engineers (IEI) –AM158374-6 –Lifetime
- Indian society of Technical Education (ISTE) –LM113083 -Lifetime

Number of FDPs / STTPs organized: 06

Number of Seminars organized: 02

Number of FDPs / STTPs attended: 23

Number of Conferences / Seminars attended: 10

Number of Online Certification Courses done: 20

Details of Research papers published:

1. Dr. Shubhangi Gondane, Shantanu N.Shahu, Komal Chitte, Kashish Bhondave, Suraj Shendkar, Rohan Neel, Kartik Panzade, "Design and Development of 3d Printed Flexography Plate for Printing Application via Additive Manufacturing, proceeding of the National seminar, Innovative technological solution for sustainability, ISBN 978-93-344-3135-3, 29/12/2025 to 31/12/2025,PP 25-29.
2. Dr. S. M. Gondane, Dr. P. N. Belkhode, Dr. M. P. Joshi, Feasibility Study of a Synthesized Adhesive Compared with Commercial Adhesives on Bamboo joinery, proceeding of the National seminar, Innovative technological solution for sustainability, ISBN 978-93-344-3135-3, 29/12/2025 to 31/12/2025,PP 19.
3. S.M. Gondane "Design of a Hybrid Renewable Energy System Utilizing Rainwater and Wind for Sustainable Power Generation" International Research Journal of Engineering and Technology (IRJET), Volume 10, Issue 3 in March 2025.
4. S.M. Gondane "Automated Secondary Load Reduction in EVs for Uphill Torque Enhancement" International Research Journal of Engineering and Technology (IRJET), Volume 10, Issue 3 in March 2025.

Details of FDPs / STTPs attended in last 5 years:

1. AICTE Training and Learning (ATAL) Academy Faculty Development Program on METAL ADDITIVE MANUFACTURING at VNIT Nagpur from 08/12/2025 to 13/12/2025.
2. AICTE Training and Learning (ATAL) Academy Faculty Development Program on Advances in Renewable Energy Technologies for Sustainable Future at S B JAIN INSTITUTE OF TECHNOLOGY, MANAGEMENT AND RESEARCH from 01/12/2025 to 06/12/2025.
3. Faculty Development Program on "Empowering Women in STEM: Research proposal Writing and Funding Opportunities" Organized by the department of Computer Engineering and Technology, MIT World Peace University, Pune on 27th and 28th November 2025.
4. AICTE Training and Learning (ATAL) Academy Faculty Development Program on DESIGN THINKING AND INNOVATION at SAIBALAJI INTERNATIONAL INTSTITUTE OF MANAGEMENT SCIENCES from 24/11/2025 to 29/11/2025.
5. NPTEL AICTE faculty development program on Development Research Methods for 8 week from Aug- Oct 2025.
6. NPTEL AICTE faculty development program on Technical Communication for Engineers for 4 week from July – Aug 2025.

7. AICTE Training and Learning (ATAL) Academy Faculty Development Program on Green Technology towards Sustainable Future at Laxminarayan Innovation Technological University from 03/02/2025 to 08/02/2025.

Major Portfolios Handled: (college level and department level)

- NDLI Coordinator of Department -PVGCOETM,Pune
- Website and Departmental Magazine Coordinator- PVGCOETM,Pune
- Committee member of Indian Knowledge System (IKS)- PVGCOETM,Pune
- Committee Member of WGC -PVGCOETM,Pune
- Dean IQAC,TGPCET, Nagpur (2021-23)
- Worked as departmental NBA coordinator and Criteria 3 coordinator in NBA Accreditation TGPCET, Nagpur (2021-24)
- Autonomy Syllabus Restructuring committee , TGPCET, Nagpur (2020-2021)
- Core team member of NAAC documentation and SSR Preparation TGPCET, Nagpur (2018-2021)
- Head of Mechanical Engineering Department , TGPCET, Nagpur (2016-2018)

Role in University Bodies

- Worked as Chairmen, Papersetter, Examiner of Introduction of Packaging Concepts, IPC (2024 pattern) in Printing Board in SPPU examination, session 2025-26, Term I.
- Worked as Chairmen, Papersetter, Examiner of Introduction of Packaging Concepts , IPC (2019 pattern) in Printing Board in SPPU examination, session 2025-26,Term I
- Worked as Chairmen, Papersetter, Examiner of Wood, Glass and Metal Packaging, WGMP in Printing Board in SPPU examination, session 2025-26, Term I.
- Worked as Chairmen, Papersetter, Examiner of elective subject Polymer Science in Printing Board in SPPU examination, session 2024-25, Term I.