

Name of Teaching Staff	:	Dr.Ashwini Vaibhav Gotmare	
Designation	:	Assistant Professor	
Department	:	Mechanical Engineering	
Date of Joining the Institution	:	15 th January 2025	
Email ID	:	ashwini.gotmare@djsce.ac.in	
Office Contact	:	022/42335000/42335001	
Google Scholar Link	:	https://scholar.google.co.in/citations?user=oU7QjSUA AAAAJ&hl=en	
Researchgate Link:		https://www.researchgate.net/profile/Ashwini-Gotmare	
ORCID		https://orcid.org/0000-0002-9689-8921	
Publons Researcher ID	:	https://www.webofscience.com/wos/author/record/MTG-1614-2025	
Qualifications with Class / Grade	:	Ph.D. (Mechanical Engineering) , University of Mumbai, August-2023 M.Tech. (Design Engineering) , Birla Institute of Technology, Pilani, 2015 B.Tech. (Mechanical Engineering) , College of Engineering Pune, 2012	
Total Experience in Years	:	Total Experience: - 10 years Assistant Professor in Department of Mechanical Engineering, D. J. Sanghvi College of Engineering, Vile parle, Mumbai, (January 2025 to till date) Assistant Professor in Department of Mechanical Engineering, Rajiv Gandhi Institute of Technology, Mumbai, (July 2017 to January 2025) Assistant Professor in Department of Mechanical Engineering, Veermata Jijabai Technological Institute, Mumbai, (Dec 2016 to May 2017) Assistant Professor in Department of Mechanical Engineering, Veermata Jijabai Technological Institute, Mumbai, (July 2015 to Dec 2015)	
Papers Published in Journal:	:	- Gotmare A. V., Bokade S. U., Inamdar Z. Z. & Bhirud S. G. (2019). A Systematic Literature Review on RFID Application in Manufacturing and Supply Chain Management. Industrial Engineering Journal, 12(10),pp.23-31 DOI: https://doi.org/10.26488/IEJ.12.10.1203 - Raut R. D., Gotmare A.V., Narkhede B. E., Usharani H.& Bokade S. U. (2020) Enabling technologies for Industry 4.0 manufacturing and supply chain: concepts, current status, and adoption challenges. IEEE Engineering Management Review DOI: https://doi.org/10.1109/EMR.2020.2987884 - Digalwar A., Raut R. D.,Yadav V. S., Narkhede B. E., Gardas B. & Gotmare A.V. (2020). Evaluation of critical constructs for measurement of sustainable supply chain practices in lean-agile firms of Indian origin: A hybrid ISM-ANP approach. Business Strategy and the Environment https://doi.org/10.1002/bse.2455 - Gotmare A. V., Bokade S. U. (2021) Analyzing the barriers to Internet of things (IoT) adoption in Indian manufacturing firms Using Analytical Hierarchy Process, Udyog Pragati Journal (NITIE)	

		5. Parthban S, Gedam V. V., Narkhede B. E., Narawane V. S. & Gotmare A. V. (2022). Sustainable implementation drivers and barriers of lean_agile manufacturing in original equipment manufacturers: A literature review study, International Journal of Business Excellence, DOI: https://doi.org/10.1504/IJBEX.2019.10028926 6. Gotmare, A., Patil, R. B., Dhale, A., Vasudevan, H., Al-Dahidi, S., & Roy, A. (2026). A bibliometric review of hydrogen fuel cell research: trends in safety, reliability, and performance analysis (2020–2024). International Journal of Sustainable Energy, 45(1). https://doi.org/10.1080/14786451.2026.2637991
Papers Presented in Conferences		1. Gotmare A. V., Pandey D. S., Bokade S. U. (2018). Rediscovering Industries from the Perspective of Industry 4.0 - A Review, National Conference on Industrial Engineering & Technology Management (NCIETM 2018), pp. 41, NITIE Mumbai 2. Gotmare A. V., Bokade S. U. (2019). Internet of Things in Manufacturing: A Review on Applications, Challenges and Future Directions, 61st National Convention of Indian Institution of Industrial Engineering and 5th international conference on Industrial Engineering (ICIE-2019), Vol. I, pp. 431-437, SVNIT Surat 3. Amit Patil, Komal Powar, Ashwini Gotmare (2020) Polyacrylonitrile (PAN) Nano fibrous Membrane to Filter Particulate Matter from Automobile Exhaust System: A Review, TEQUIPIII Sponsored 1st International Virtual Conference on Recent Advancements in Design and Manufacturing (ICRADM-2020), SVNIT Surat 4. Gotmare A. V., Bokade S. U, (2022), Evaluation of Barriers to Implementation of Industry 4.0 Enabling Technologies in Indian Manufacturing Organizations, AICTE sponsored International Conference on Embracing Industry 4.0 Technologies for Sustainable Growth (ICEI4.0-2022) 5. Gotmare A. V., Bokade S. U, (2022), Impact of barriers to industry 4.0 adoption on Business performance: an exploratory study of Indian Manufacturing organizations, 3rd International Conference on Future Technologies in Manufacturing, Automation, Design & Energy (ICoFT MADE 2022), NIT Pondicherry 6. Veehant Rambhiya, Vraj Parekh, Patil, R. B, Gotmare, A.V.(2025), A Comprehensive Bibliometric Study of Solar PV Research: Trends, Impact and Reliability, International Conference on Smart Mechanical Systems for Sustainability (ICSMSS 2025), SVKM's D. J. Sanghvi College of Engineering, Mumbai 7. Nupam Shah, Rahul Gondhiya, Miten Jain, Pratham Patel, Patil, R. B, Gotmare, A.V.(2025), A Bibliometric Analysis of Research on Reliability and Safety of Unmanned Aerial Vehicles: A Scopus Based Study, International Conference on Smart Mechanical Systems for Sustainability (ICSMSS 2025), SVKM's D. J. Sanghvi College of Engineering, Mumbai

Area of Specialization		<u>Industry 4.0, Industrial Engineering, Machine Design, Strength of Materials</u>	
Professional Memberships	:	LM-IIIE	Life Member of Indian Institution of Industrial Engineering (IIIE)
Grants fetched	:	--	---
Interaction with Professional Institutions	:	Guest Lectures:	Delivered expert talk on “Design of Six Sigma” during one-week workshop organized by IIIE RGIT student chapter. STTP/FDP/Workshop/Courses Attended: <u>Courses:</u> 1. Cloud Computing Basics course on Coursera. 2. course on Industry 4.0 offered by Tata Steel Capability development. 3. Digital Manufacturing and Design course on Coursera. 4. NPTEL course on “Introduction to Industry 4.0 and Industrial Internet of Things” with ELITE grade 5. NPTEL course on “Strength of Materials” with ELITE grade 6. NITTTR Module 3: Communication Skills, Modes & Knowledge Dissemination 7. NPTEL course 'Product Engineering and Design Thinking' with Top 5 % topper 8. Coursera courses - AI for everyone, Foundation in teaching learning curriculum, student assessment and science of well being 9. NPTEL Course - Engineering Economic Analysis – Topper 10. NPTEL - Production and Operation Management – ELITE Grade <u>STTP/FDP:</u> 1. Successfully completed online one week FDP on IPR and property rights organized by SLRTCE in May 2020. 2. Successfully participated in one week FDP on “Engineering Education and the Industry: A post COVID-19 perspective” during 1st to 5th June in Rajiv Gandhi Institute of Technology. 3. Successfully participated in one week FDP on “Enhancing Research Work of Ph.D. Aspirants through Systematic Approach” during 8th to 10th June, 2020 in LTCOE 4. Successfully participated in one week FDP on “E Learning” during 5th to 7th July in Rajiv Gandhi Institute of Technology. 5. Successfully participated in one week FDP on Academic Transformation with Secrets of Empowerment” held during 23 July, 2020 to 25 July, 2020 in Rajiv Gandhi Institute of Technology. 6. Successfully completed the AICTE – AQIS sponsored Online Four Weeks STTP on “Recent Trends in Energy Management and Audit” held during 2nd November to 19th December 2020.

		7. Successfully Completed "Advances in Smart Manufacturing Technologies" one-week faculty development program (FDP) sponsored by TEQUIP III (Under Twinning) at Veermata Jijabai Technological Institute, Mumbai, December 30th 2019 – January 04th 2020 8. Successfully Completed "Machine Learning with IoT" one-week faculty development program(FDP) at Rajiv Gandhi Institute of Technology, Mumbai, 16th December 2019- 20th December 2019 9. Successfully Completed "Research Methodology" one-week faculty development program(FDP) at Rajiv Gandhi Institute of Technology, Mumbai, 01st July 2019 – 05th July 2019 10. Successfully Completed "Industrial Safety Workshop" one-day training at L & T Madh, Mumbai, 29thJanuary2019 11. Successfully Completed "Effective Pedagogical Practices" one-week faculty development program(FDP)sponsored by TEQUIP III (Under Twinning) at Sardar Patel College of Engineering, Mumbai, 29thOctober2018– 02nd November 2018 12. Successfully Completed "Industrial Tribology" short term training program (STTP) sponsored by TEQUIP II Approved by AICTE, at VJTI, Mumbai, 11th December 2017 – 15th December 2017 13. ATAI FDP completed on Recent Trends in Cutting-Edge Automotive Technology 14. Completed FDP on ' Think, do, write and publish' organized by ISTE, DJS Anveshan and Dept of Mech Engg DJSCE - 27-31 Oct 2025 15. ATAI FDP –“Industry 5.0 and sustainability: emerging trends and challenges for a green future” conducted at ‘Guru Nanak Institute of Technology, Kolkata’ from 12th January to 17th January 2026.
	Other Achievements:	1. Received Appreciation Memento for Best faculty advisor by IIIE MUMBAI Chapter (2023) 2. Received 3rd prize in Technical Paper Presentation in 62nd national Convention hosted by Indian Institution of Industrial Engineering (2024) 3. Reviewer for 2nd International Conference on Sustainable Industry 4.0 (ICSI 2026) held at the Dr. D. Y. Patil Institute of Technology in Pimpri, Pune 4. Reviewer for 3rd International Conference on Technologies for Energy, Agriculture and Healthcare (ICTEAH 2026) held at K J Somaiya School of Engineering, Somaiya Vidyavihar University, Mumbai.
	Responsibilities:	Reviewer for Industrial Engineering Journal (UGC Approved Journal)

			Council Member of Indian Institution of Industrial Engineering Mumbai Chapter
Subjects Taught		<u>UG Level:</u> 1.Mechine Design-I 2.Machine Design –II 3.Design of Mechanical Systems 4.Strength of Materials 5.Production Planning and Control 6.3D Printing: Introduction and Processes 7.Industrial Engineering Management 8. Economics Finance and Management 9. Business Analytics 10. CAD CAM Lab 11. Engineering Graphics – AutoCAD Lab <u>PG Level:</u> Research Methodology	
Projects Guided	:	<u>UG Level:</u> 1. Design and development of external exhaust filter unit with nano fibrous material to reduce air pollution from automotive vehicles 2. Design and development of window evacuation system in case of fire accidents 3. An experimental set-up for power generation using Maglev roof top ventilator 4. A Low-Cost Portable Ventilator for Covid 19 Crisis 5. Design of floor cleaning robot 6. Design and Development of Pipe inspection Robot <u>PG Level:</u> --	
Recommended Students for Higher Education		<u>Name of the Student</u> More than 15 students for PG level	<u>University/Industry</u> Various Universities across the USA, UK, Germany
Institute/Department Responsibility handled:		<u>Institute:</u> 1. DJS Anveshan - R&D committee 2. IIC – Yukti Innovation Challenge Coordinator 3. IIC Regional Meet 2025 – Core committee member and PoC 4. Representative at Military Civil Fusion Conclave 2026 5. Faculty Advisor - DJ Speedsters 6. Technical Joint Convenor – Trinity 2026-27 7. Alumni Committee Member	

		Department: 1. NBA – Criteria 1 & 8 Member 2. NAAC – Criteria 3 Member 3. Mentoring Coordinator 4. Organizing Committee member for conference ICSMSS 2025 5. Placement Faculty Coordinator 6. OJT Committee member 7. Coursera Committee 8. Class Teacher
Pedagogy Development		Implemented learner-centric pedagogies including Think-Pair-Share, case-based learning and self-learning activities to improve student engagement. Integrated AI tools, simulation, and digital platforms into teaching and laboratory activities to provide application-oriented learning experiences.