

Dr. G V JAGADEESH

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RESIDENTIAL ADDRESS:

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ACADEMIC QUALIFICATIONS

- ❖ Ph.D - Biomaterials
- ❖ M.Tech - Machine Design
- ❖ B.Tech - Mechanical Engineering

ACADEMIC REWARDS / ACHIEVEMENTS:

- ❖ Recipient of Best Paper Award in the conference FTMMME-2020 organized by NIT Raipur
- ❖ Recipient of Gold Medal in M.Tech from NIT Raipur
- ❖ Secured AIR 5301 in GATE 2017 with a percentile of 97.2.

PROFESSIONAL EXPERIENCE

Designation	University/College	Period
Assistant Professor	Seshadri Rao Gudlavalleru Engineering College	01.11.2019 to Present
Assistant Professor	GIET(A), Rajahmundry, AP	27.05.2019 to 31.10.2019
GET	SKF India Ltd	05.06.2015 to 13.04.2016

PROJECTS GUIDED

PhD	Post Graduation	Under Graduation
-	01	08

SPECIALIZATION:

- ❖ Machine Design
- ❖ Machine Learning
- ❖ Artificial Neural Networks
- ❖ Bio Materials
- ❖ Machining
- ❖ Composites

PATENTS:

S No	Application No	Title of the Invention	Status	Grant/ Published Date
Utility Patents:				
1	202141000882	Process of Forming Three-Dimensional Objects With Enhanced Degradability	Granted	11/08/2023
2	202441101598	Design and Fabrication of Bluetooth-Controlled Robotic Arm for Automated Food Handling	Published	03/01/2025
3	202441101563	Sustainable Co-Pyrolysis Process For Converting Plastic waste And Wood Biomass Into Energy Products	Published	10/01/2025
4	202541003030	A Novel Method for Developing High Performance Pneumatic Arm Hammer	Published	31/01/2025
Design Patents:				
1	415477-001	Rear Wheel Chain Sprocket For Improved Power Transmission	Granted	29/01/2025
2	428197-001	An Automotive Muffler	Granted	02/12/2024
3	428196-001	Cylinder Roller Bearing	Granted	28/11/2024
4	428198-001	An Automotive Alloy Wheel Rim	Granted	04/11/2024
5	428201-001	Air Cooled Mobile Stand	Granted	04/11/2024
6	428200-001	Self Lubrication Spur Gear	Granted	15/10/2024
7	400460-001	Mobile Device With Camera	Granted	05/08/2024
8	415475-001	Bicycle	Granted	05/08/2024
9	415473-001	Industrial Robot With Gripper Resembling Human Hand	Granted	11/07/2024
10	415476-001	IOT Enabled Water Tank	Granted	24/06/2024
11	404251-001	An Automotive Tyre	Granted	18/04/2024
12	404252-001	Mobile Device With Camera	Granted	04/03/2024
13	402771-001	An Automotive Alloy Wheel Rim	Granted	29/02/2024
14	399131-001	Two-Wheeler Clutch Lever	Granted	15/02/2024
15	399133-001	Ball Bearing With Enhanced Outer Ring Interference	Granted	05/01/2024
16	399132-001	An Automotive Alloy Wheel Rim	Granted	04/01/2024

PAPERS PUBLISHED IN JOURNALS:

Journals:	National	:	Nil
	International	:	11 (SCI)
Conferences:	National	:	02
	International	:	06 (Scopus)

Journals:

International

1. **G V Jagadeesh**, Srinivasu Gangi Setti, “Biodegradation performance of ball burnished magnesium alloy in stimulated body fluids for bioresorbable implant applications”, *Materials Today Communications*, vol. 38, pp. 108525, 2024 (SCI)(IF:3.8).
2. **G V Jagadeesh**, Srinivasu Gangi Setti, “Experimental investigation and estimation of compressive residual stress of ball burnished rare earth based magnesium alloy”, *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering (Online)* (SCI)(IF:1.822).
3. **G V Jagadeesh**, Srinivasu Gangi Setti, “Surface integrity of ball burnished bioresorbable magnesium alloy”, *Advances in Manufacturing*, vol. 11 (2), pp. 342–362, 2023 (SCI)(IF:4.413)
4. **G V Jagadeesh**, Srinivasu Gangi Setti, “Tribological characterization of ball burnished magnesium alloy by wear-burnishing maps, wear maps and artificial intelligence technique”, *Arabian Journal for Science and Engineering*, vol. 48 (3), pp. 3111–3131, 2023. (SCI)(IF:2.807).
5. **G V Jagadeesh**, Srinivasu Gangi Setti, “A review on latest trends in ball and roller burnishing processes for enhancing surface finish”, *Advances in Materials and Processing Technologies*, vol. 8 (4), pp. 4499–4523, 2022. (ESCI).
6. **G V Jagadeesh**, Srinivasu Gangi Setti, “Modeling the surface integrity of ball burnished biocompatible magnesium alloy by soft computing techniques”, *Transactions of the Indian Institute of Metals*, vol. 75 (6), pp. 1603–1618, 2022. (SCI)(IF:1.430)
7. **G V Jagadeesh**, Srinivasu Gangi Setti, “Tribological performance evaluation of ball burnished magnesium alloy for bioresorbable implant applications”, *Journal of Materials Engineering and Performance*, vol. 31 (2), pp. 1170–1186, 2022. (SCI) (IF:2.099)
8. **G V Jagadeesh**, Srinivasu Gangi Setti, “Bio engineering and bio design of new generation bioresorbable implants”, *Indian Journal of Biochemistry and Biophysics*, vol. 58 (2), pp. 118–126, 2021. (SCI)(IF:1.476)
9. Rajesh Egala, **G V Jagadeesh**, Srinivasu G, “Experimental investigation and prediction of tribological behavior of unidirectional short castor oil fiber reinforced epoxy composites”, *Friction*, vol. 9 (2), pp. 250–272, 2021. (SCI)(IF:5.662)
10. **G V Jagadeesh**, Srinivasu Gangi Setti, “A review on micromechanical methods for evaluation of mechanical behavior of particulate reinforced metal matrix composites”, *Journal of Materials Science*, vol. 55 (23), pp. 9848–9882, 2020 (SCI)(IF:4.682)
11. **G V Jagadeesh**, Srinivasu Gangi Setti, “A current status on residual stress characterization by crystal lattice strain (Diffraction) method”, *Journal of Structural Chemistry*, vol. 61 (2), pp. 247–258, 2020. (SCI)(IF:1.004)

RECENT PUBLICATIONS IN CONFERENCES:

a) National

- ❖ Presented a paper on “Influence of Ball Burnishing Parameters on the Surface Hardness of Magnesium alloy”, National conference on Futuristic Trends in Materials, Manufacturing and Mechanical Engineering (FTMMME), 28th - 29th February 2020, NIT Raipur, Chhattisgarh, India.
- ❖ Presented a paper on “Magnesium and Magnesium alloys: Problems and Solutions in Industrial Applications” in National conference on challenges and opportunities in Indian industries, 12th - 13th April 2019, NIT Raipur, Chattisgarh, India.

b) International

1. **G V Jagadeesh**, K Ch Kishor Kumar , P. Ravindra Babu, S.B.K. Reddy, D. Kiran Prasad, “Investigation on tribological characteristics of ball burnished Mg Ze41A alloy by ANOVA and ANFIS techniques”, *Mater. Today Proc.*, vol. 98, pp. 86–90, 2024.
2. **G V Jagadeesh**, Srinivasu Gangi Setti, “Surface Modification of Biodegradable Magnesium Alloy by Ball Burnishing Process”, *Lecture Notes in Mechanical Engineering*, pp. 327–334, 2022.
3. S B K Reddy, **G V Jagadeesh**, T Siva Krishna, “Effect of fiber orientation and ply thickness on mechanical behavior of laminated composites”, *Lecture Notes in Mechanical Engineering*, pp. 259–267, 2022.
4. **G V Jagadeesh**, T Teja Rakesh Kumar, T Sai Aneesh, N Dheeraj Srinivas, V Harish, and A Ravi Kumar, “A fuzzy logic approach for investigating the tribological behavior of polymer composite,” IOP Conf. Ser. Mater. Sci. Eng., vol. 1225, pp. 012008, 2022.
5. **G V Jagadeesh**, Srinivasu Gangi Setti, “An experimental study on the surface finish of ball burnished magnesium (rare earth base) alloy”, *Mater. Today Proc.*, vol. 18, pp. 4711–4716, 2019.
6. **G V Jagadeesh**, Satish J, Rajesh Egala, Srinivasu G, “Dry sliding wear of unidirectional short castor oil fiber reinforced epoxy composite”, *Mat. Sci. Forum.*, vol. 969, pp. 140–145, 2019.

LIST OF WORKSHOPS ORGANIZED: 01

S.No	Name of the Investigator	PI/Co-PI	Title of the FDP	Funding Agency	Duration	Amount
1	Dr. G V Jagadeesh	Co-PI	Machine Learning and its prospects in Manufacturing & Industry 4.0	AICTE-ATL FDP	1 Week	Rs.1,00,000/-

LIST OF WORKSHOPS / SEMINARS ATTENDED: 33

1. Faculty Development Program on “Recent Trends in Electric Vehicles – Phase 1” organized by Gudlavalleru Engineering College, Gudlavalleru on 17 - 19 Mar’21.
2. Faculty Development Program on “Recent developments in mechanical engineering” organized by Prasad V.Potluri Siddhartha Institute of Technology, Vijayawada on 10-14 Aug’20.

3. National level webinar on “Intellectual Property Rights & Patents - A View” organized by Gudlavalleru Engineering College, Gudlavalleru on 10 - 12 Aug’20
4. Faculty Development Program on “Recent advances in mechanical engineering” organized by Godavari Institute of Engineering & Technology, Rajamahendravaram on 04-08 Aug’20.
5. Faculty Development Program on “Research Innovations in Mechanical Engineering” organized by Sasi Institute of Technology & Engineering, Tadepalligudem on 13-17 July’20.
6. Faculty Development Program on “Industrial Robotics and it’s applications” organized by GMR Institute of Technology, Rajam on 06-11 July’20.
7. Workshop on “Combating COVID-19: It’s time to Respond with Resilience” organized by National Institute of Technology, Raipur on 30 June’20 - 04 July’20.
8. Faculty Development Program on “Advanced Materials and Manufacturing” organized by Kakatiya Institute of Technology & Science, Warangal on 29 June’20 - 03 July’20.
9. Faculty Development Program on “Research Challenges in Mechanical Engineering” organized by Sri Venkateswara College of Engineering & Technology, Chittoor on 22-27 June’20.
10. Faculty Development Program on “Effective Research Writing using LaTeX” organized by Pragati Engineering College in association with Spoken Tutorial, IIT Bombay on 22-27 June’20.
11. Faculty Development Program on “Surface Roughness Metrology” organized by Shadan College of Engineering & Technology, Hyderabad on 18 June’20.
12. Faculty Development Program on “Research trends in Mechanical Engineering” organized by Gudlavalleru Engineering College, Gudlavalleru on 15-20 June’20.
13. Short term training program on “Recent Advances in Mechanical Engineering (RAME)” organized by S V College of Engineering, Tirupati on 12-13 June’20.
14. Faculty Development Program on “Contemporary Developments in Manufacturing Processes, Sustainable Manufacturing and Industrial Technologies” organized by Pragati Engineering College, Surampalem on 09-13 June’20.
15. Faculty Development Program on “Fluid & Structural Simulation using CRADLE” organized by Lakireddy Bali Reddy College of Engineering, Mylavaram on 08-10 June’20.
16. Faculty Development Program on “Research Opportunities and Challenges in Manufacturing Sector” organized by SVERI’s College of Engineering, Pandharpur, Maharashtra on 01-06 June’20.
17. Faculty Development Program on “Fuel Cell Technology and it's applications” organized by SVR Engineering College, Nandyal on 05 June’20.
18. Faculty Development Program on “Research Among Youth 2020” organized by Vardhaman college of Engineering, Hyderabad on 28 May’20 - 03 June’20.
19. Faculty Development Program on “Advanced material characterization techniques - A research perspective” organized by Lendi Institute of Engineering & Technology, Vizianagaram on 28-30 May’20.
20. Faculty Development Program on “R programming language” organized by Smt. Kamala & Sri Venkappa M. Agadi College of Engineering & Technology, Gadag on 28-30 May’20.
21. Faculty Development Program on “Recent trends in quality control & testing of weldments” organized by Godavari Institute of Engineering & Technology, Rajamahendravaram on 26-27 May’20.
22. Faculty Development Program on “Advanced NDT techniques & applications in industry” organized by Indian Society for Non Destructive Testing, Hyderabad chapter on 25-29 May’20.

23. Faculty Development Program on “Development and characterization of composite Materials” organized by Lingayas Institute of Management and Technology, Nunna on 25-29 May’20.
24. Workshop on “COVID-19: Resurgence of entrepreneurship and startups at Indian glance” organized by Lakireddy Bali Reddy College of Engineering, Mylavaram on 25-28 May’20.
25. Workshop on “Awareness on industrial safety during COVID 19” organized by S.A.Engineering College, Chennai on 23 May’20.
26. Faculty Development Program on “Innovation and research trends in mechanical engineering” organized by Kallam Haranadha Reddy Institute of Technology, Guntur on 18-22 May’20.
27. Faculty Development Program on “Recent trends in research methodology” organized by Bhimavaram Institute of Engineering & Technology, Bhimavaram on 19-21 May’20.
28. Workshop on “Additive manufacturing” organized by S.A.Engineering College, Chennai on 15-16 May’20.
29. Faculty Development Program on “Universal human values and professional ethics” organized by Chebrolu Engineering College, Guntur on 13-17 May’20.
30. Faculty Development Program on “IPR Awareness and patent prosecution” organized by CMR Engineering College, Hyderabad on 06-10 May’20.
31. Workshop on “Fuzzy logic and neural network approaches for engineering solutions” organized by Journal of Advanced Engineering Research on 01-02 May’20.
32. Short term training program on “Advances in mechanical, industrial engineering & management” organized by NIT Raipur on 09-13 Apr’19.
33. Short term training program on “Advances in materials processing technology” organized by NIT Raipur on 23-27 Nov’18.

GUEST LECTURES DELIVERED: Nil

MEMBERSHIP IN PROFESSIONAL BODIES: Nil

GRANTS FETCHED: Nil