Faculty Profile

I am Dr. Keshav M, currently serving as an Assistant Professor (Senior Scale) in the Department of Mechanical Engineering at RV College of Engineering, Bengaluru. With over 14 years of teaching experience, I have been deeply committed to nurturing the next generation of engineers through a blend of academic rigor and hands-on project work. I earned my Ph.D. with a focus on manufacturing systems, and my primary areas of interest include Industrial Automation and Flexible Manufacturing Systems. Over the years, I have guided 20 undergraduate and 5 postgraduate projects, and I am a proud member of professional societies such as MISTE and MIFO.

My research journey has led me to publish extensively in reputed international journals and conferences. I have worked on topics ranging from tool geometry optimization and wear-resistant coatings to smart systems and tribological studies for hydraulic applications. I actively pursue continuous learning through NPTEL courses and faculty development programs on emerging technologies like smart manufacturing, machine learning, and robotics. I've also had the opportunity to organize and contribute to various workshops and seminars. My approach to teaching integrates the latest advancements in engineering with a strong emphasis on practical application and innovation.

Personal Information

- **Name:** Dr. Keshav M
- **Designation:** Assistant Professor (Senior Scale)
- **Department:** Mechanical Engineering
- **Email:** keshavm@rvce.edu.in
- **Phone:** 080-68188143

Google Scholar: https://scholar.google.com/citations?user=wdCcqbYAAAAJ&hl=en

ORCID: https://orcid.org/0000-0001-7833-9803?lang=en

Domain of Expertise: Industrial Automation, Mechatronics

Research Focus

- **Primary Area:** Wear resistant coatings for automation equipments.
- **Allied Areas:**

- IIOT
- CNC Machining

Academic Qualifications

- **Ph.D.**: [Mechanical Engineering], [VTU], [2023]
- **M.Tech**: [Computer Integrated Manufacturing], [VTU], [2011]
- **B.E./B.Tech**: [Mechanical Engineering], [VTU], [2009]

Professional Experience

Experience			
S.No	**Institute/College/Industry**	**Job Title**	**Duration (From- To)**
1.	RV College of Engineering	Assistant Professor	June 2012 – Till date
2.	MVJ College of Engineering	Assistant Professor	August 2011 - May 2012

Publications & Patents

Journal Publications

1. Keshav M, G. V. Achappa, H. M. B. Darshan, B. Achutarao, K. L. N. M. Jayalakshmi, "Statistical investigation of tool geometry for minimization of cutting force in turning of hardened steel," International Journal of Modern Manufacturing Technologies (IJMMT), vol. 16, no. 1, Jan. 2024.
2. Chakraborty Sujan, Mahantesh M. Math, R. S. Vijaykumar, Saravana Bavan, B. Nandini, M. Krishna, Keshav M and C. Durga Prasad. "Analysis and Optimization of Process Parameters to Develop Nanohybrid Composites of Vanadium Pentoxide/Reduced Graphene Oxide." Journal of the Institution of Engineers (India) Series D/Journal of the Institution of Engineers (India) Series D, December 24, 2023. https://doi.org/10.1007/s40033-023-00618-z.
3. Keshav Manjunath, Bharatish Achutarao, Duggirala Venkata Naga Harish, Babu Ramappa, and Shanmukha Nagaraj. "The Effect of Bias Voltage and Acetylene Gas Flow Rate on the Wear Behavior of Diamond-like Carbon Coatings on M2 High-Speed Steel." Transactions of the Indian Ceramic Society 82, no. 4 October 2023 295–306. https://doi.org/10.1080/0371750x.2023.2263484.
4. Keshav M and Shanmukha Nagaraj, "Wear Resistance Of DLC Coated Steel Substrates In Oil Lubrication Conditions For Hydraulic Applications", published in the Journal The Saybold report with Vol. No. 17, Issue No 10, 2022, Page No. 1662-1675
5. Keshav M and Shanmukha Nagaraj ,"Investigation of tribological behaviour of Diamond

like Carbon coated HSS M2 steel for Hydraulic applications", published in the Journal International Journal of Mechanical Engineering with Vol. No. 6 Issue No_ Special Issue 2021 Page No. 1444-1462

6. S. K. Harisha, G. R. Rajkumar, V. Pawar, and M. Keshav, "Statistical investigation of tool geometry for minimization of cutting force in turning of hardened steel," Materials Today: Proceedings, vol. 5, no. 5, pp. 13173–13181, 2018. doi:10.1016/j.matpr.2017.11.224
7. 'Statistical Investigation of tool geometry for minimization of Cutting Force in Turning of Hardened Steel' S.K.HarishaaG.R.RajkumaraVikasPawarb M.Keshav, Material Science Procedia, Vol 5, Issue 5, 2018.
8. Nataraj GS, Shanmukha Nagaraj, Keshav M, Prakash KR, "Position Characterisation of Electro Pneumatic Closed loop Control Valve, 'International Journal of Research in Engineering & Technology (IJRET), Vol 2, Issue 12, December 2013, pp.616-619

Conference Papers

1. Keshav M, V. Hugar, P. Matt, C. Chandrashekar "Modeling and Simulation of Helicopter Swashplate Collective Control Response in UAV Applications," 2024 8th International Conference on Computational System and Information Technology for Sustainable Solutions (CSITSS), Bengaluru, India, 2024, pp. 1-5, doi: 10.1109/CSITSS64042.2024.10817063.
2. Keshav M, A. K. Singh, Laxmi, N. H, Shamith, K. M "Design and Implementation of Smart Door Lock System Using IoT," 2024 8th International Conference on Computational System and Information Technology for Sustainable Solutions (CSITSS), Bengaluru, India, 2024, pp. 1-4, doi: 10.1109/CSITSS64042.2024.10816710
3. Keshav M, Nikhil Chudasma "Modelling of tribological behavior of Diamond-like Carbon coated HSS M2 steel for Hydraulic applications" Accelerating Innovations in Material Science (AIMS - 2020) BMS Institute of Technology & management, Bengaluru August 04-07, 2020
4. Keshav M, Shanmukha Nagaraj, "Investigation of Matrix fin based transply effluent cooling system" at International conference of Thermo-fluids and Energy Systems (ICTES2019) 27-28 December 2019, BNM Institute of Technology, Bengaluru, India
5. Keshav M, Nikhil Chudasma, "Effect of Wear Resistant Coatings on Oil Hydraulic Components-A Review" at National Conference On Material Processing And Characterization, PESITM Shimoga 2019
6. Keshav M, 'Numerical investigation of wear between vanes and rotor in oil vane pumps' at one day National conference on product design, virtual prototyping and manufacturing (NCPDVM 2018) at PSG institute of technology, 4th May 2018.
7. Malatesh Kalal, Keshav M, "Dynamic behavior of dump truck chassis sub frame – A review" at National Symposium on Engineering and technology, Sree ramachandra college of Engineering, Pune, March 11 th and 12 th 2016
8. Jinka Ranganayakulu, Rayudu Pellala, Keshav M, "Application of Soft computing techniques in electro – discharge machining processes – A review, 'National Conference on Innovation in Mechanical Engineering, MITS, December 2014, pp.418-426.

Books/Book Chapters

Patents [Filed / Published / Granted]

R & Grants & Consultancy Projects

Ongoing & Completed Research Projects

Ongoing & Completed Consultancy Projects

Sl No	Project title	Name of Industry and Address	Amount	Status
1	Thermal energy Auditing of producer gas and Kiln units of VRPL	Visvakarma refractories private limited, Kolar	6,00,300.00	Completed
2	Electrical energy auditing and management	Bhuwalka castings and forgings pvt ltd.	5,65,800.00	Completed
3	Charecterisation and studies on reclaimed waste foundry sand as aggregates of building projects	Bhuwalka castings and forgings pvt ltd.	6,14,100.00	Completed

Professional Memberships

- FPSI, IFA

Awards & Recognitions

- Academic Excellence Award, RSST, January 2024

Student Supervision

- **Ph.D. Candidates:**

- **M.Tech/M.Sc. Students:** 5
- **Undergraduate Research Mentees:** 20

Professional Roles

- **Editorial Board:**
- **Chair/Committee Member:**
- **Industry Advisor:**

Teaching

Core Courses:

- [MME325DQ] [Industrial Internet of Things]

Advanced/Lab Courses:

- Automation Lab

Professional Roles

Responsibilities

- **Academic:** Test coordinator
- **Administrative:** Counsellor

External Connect