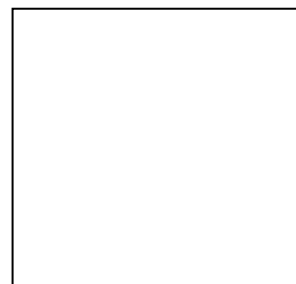


Faculty Profile

Brief Profile



Mr. Keshavamurthy Y C is a dynamic and committed Assistant Professor in the Department of Mechanical Engineering at RV College of Engineering, Bengaluru. With over 13 years of academic and research experience, he has carved a niche in Self-Healing Polymer Composites, Robotics, and CAD/CAM technologies.

His academic journey is marked by a passion for innovation and knowledge dissemination. He plays a vital role in shaping future engineers through curriculum development, student mentorship, and spearheading faculty development initiatives. A strong advocate of experiential learning, he actively organizes and conducts workshops and FDPs that bridge the gap between academic theory and industrial practice.

An avid researcher, Mr. Keshavamurthy has authored several papers in reputed national and international journals and conferences, reflecting his deep commitment to advancing engineering science and education.

Personal Information

- **Name:** Keshavamurthy Y C
- **Designation:** Assistant Professor
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ORCID: <https://orcid.org/0000-0002-2305-1172>

Domain of Expertise

Research Focus

- **Primary Area:** Self-Healing Polymer Composites, Robotics
- **Allied Areas:**
 - Additive Manufacturing, Industry 4.0, Artificial Intelligence in Robotics

Academic Qualifications

- **Ph.D.:** Pursing in VTU, RVCE, Bengaluru.
- **ME:** Master of Engineering in Manufacturing Science and Engineering, Bangalore University, 2009.
- **B.E:** Mechanical Engineering, Bangalore University, 2007.

Professional Experience

Experience			
S.No	Institute/College/Industry	Job Title	Duration (From- To)
1.	RV College of Engineering	Assistant Professor	Jan 2012 – Present
2.	SJBIT, Bengaluru	Assistant Professor	Jul 2011 – Jan 2012
3.	MS College of Engineering	Lecturer	Jul 2009 – Jun 2011

Publications & Patents

Journal Publications

1. "Characterization Of Mechanical Properties of Post weld Heat-Treated Shielded Manual Metallic Arc Welded Rails," IJJCE, Vol. 1, No. 5, Jun 2009
2. "Investigation of Tensile properties of Fiber Reinforced angle ply laminated composites," IJETAE, Vol. 2, Issue 4, Apr 2012
3. "Design and FEA of hybrid composites mono leaf spring," IJMPERD, Vol. 3, Issue 3, Aug 2013
4. "Tensile and Bending Behaviour of Al-based Hybrid Fiber Metal Laminates," Procedia Materials Science, Vol. 5, 2014
5. "Effect of Process Parameters on Shear Strength of Adhesive Joints," Journal of IEI Series C, Springer, Mar 2016
6. "FEA of Bi Copter Body Frame Model," Journal of Unmanned Aerial Systems, Vol. 4, Issue 1, Dec 2018.

Conference Papers

1. EDM: Machining of Titanium alloy with graphite electrodes, National Conference on Recent Advances in Mechanical Engg NCRAME 2006at Rayat Institute of Engg & Information Technology Punjab, 8-9 Sep 2006.
2. Evaluation of Mechanical Properties of Rail Steel National Conference on Recent Developments & Futuristic Trends in Mechanical Engineering, NCME-07, SCE, Gwalior, 28-29 April 2007.
3. A Study of Development and Evaluation of Welding Parameters for Shielded Metallic Arc Welding of Rail Steel, National Conference on Advances in Manufacturing and Industrial Engineering (NCOAIMAIE-2007), Hyderabad, 12-14 July 2007.
4. Static analysis of a human femur bone implant using FEA, TEAM TECH 2007, IISC, Bengaluru, 4-6 Oct 2007.
5. Evaluation of Mechanical Properties of Al 2025 based Hybrid composites, National Conference on Advances in product design, Materials and Manufacturing Engineering APDMM 2008, Vandalur, Chennai, 24-25 Jan 2008.
6. E-Manufacturing a technology review, WCE 2008, IAENG, UK, LONDON, 2-4 July 2008.
7. Studies of Fatigue and Wear Properties of Welded Rail Steel, TEAMTECH 2008, IISc, Bengaluru, 22-24 Sep 2008.
8. Effect of moisture content on bid Glass/Epoxy Composite, National Conference on Recent Development in Mechanical Engineering, New Horizon College of Engineering, 25 February 2009.
9. Effect of heat treatment on behaviour of Post weld - Shielded Manual Metallic Arc Welded Rails, National Conference on Emerging Trends in Mechanical Engineering, MIT, Aurangabad, Maharashtra, 5-6 March, 2009.
10. Experimental Modal Analysis of Bi-woven Glass Fiber Polymer Matrix Composite Using FFT Analyzer, National Conference on Emerging Trends in Mechanical Engineering, MIT, Aurangabad, Maharashtra, 5-6 March, 2009.
11. Degradation Studies of ILSS and Compression strength on Vacuum Moulded bid glass/epoxy composite, Emerging Trends in Engineering Technology and Applications (NCETETA-2009), Shiridi Sai Engg college, 29-30 April 2009.
12. Evaluation of compressive strength of epoxy-based E-glass laminates composites, Advances in mechanical engineering (AME 2009). VVIET, Mysore, 5th October 2009.
13. Characterization of tensile properties of E-glass/polyester woven fabric laminates, Advances in mechanical engineering (AME 2009). VVIET, Mysore, 5th October 2009.
14. Studies on Flexural behaviour of hybrid composites using FEA, TEAM TECH 2009, Jnana Jyothi Auditorium, Bengaluru, 19-21 Nov 2009.
15. Characterization of failure modes in Epoxy based E-glass/Carbon woven fabric laminates, International Conference on Applied Mechanics and Mechanical Engineering (ICAMME), Bangkok, 25-27 Dec 2009.
16. Characterization of Mechanical Properties of Natural Fiber Composites, International Conference on Applied Mechanics and Mechanical Engineering (ICAMME), Bangkok, 25-27 Dec 2009.

17. Evaluation of Tensile Properties of Epoxy based E-Glass/Carbon fiber Laminate Composites International Joint Colloquiums on Computer Electrical Mechanical and Civil CEMC 2011, 20-21 Sep 2011.
18. Studies on optimization of Selective Laser Sintering process to manufacture Fuel tanks, 4th International Conference on Additive Manufacturing Technologies – Defence, Aerospace, Automotive, Biomedical -2014, Nimhans Convention Centre, Bengaluru, September 1-2, 2014, pp-19.
19. Analysis of Electrostatic field distribution to fabricate PAN-DCPD nano fibers using electrospinning process, National Conference on Emerging Trends in Materials, Design and Manufacturing, (NCMDM – 2022), JSSATE, Bengaluru, May 27 -28, 2022.

Professional Memberships

- MISTE – LM 139068

Awards & Recognitions

- Top Performer – FDP on Fuzzy Logic and Neural Network Approaches, May 2020.
- Merit Certificate – FDP on Moodle for Teaching & Learning, Jul 2020.

Student Supervision

- **M.Tech/M.Sc. Students:** 7
- **Undergraduate Research Mentees:** 18

Professional Roles

- **Session Manager – ICSEM 2016, RVCE**
- Organizer – Webinar on Automation and Robotics in Industry 4.0, Aug 2020
- **Organizer – FDP on Autodesk Fusion 360, Jul 2023**

Teaching

Core Courses: II

- ME122GL – Computer Aided Engineering Graphics
- ME124BTS – Elements of Industry 4.0

Advanced/Lab Courses:

- MPD221IA - Intelligent Manufacturing Lab

Professional Roles

Responsibilities

- **Academic:** 2nd SEM Experiential Learning Manufacturing Process Theme Lead, 4th Sem Skill Lab Coordinator, 4th Sem Design Thinking Lab Coordinator.
- **RVCE ISTE CHAPTER** - Executive Committee Member
- **NSS Coordinator** – College Level.

External Connect

- Member of BoS – Robotics and Automation Engineering Department, D Y Patil College of Engineering, Akurdi, PUNE.