




K. S. SCHOOL OF ENGINEERING AND MANAGEMENT

#15/1, Mallasandra, Off. Kanakapura Road, Bangalore - 560109.

Faculty Name	Dr.BALAJI.B	
Designation	Associate Director, Admissions & PR Professor & HOD	
Educational Qualification	M.Tech, MISTE, MIE, Ph.D	
Experience in Years	23 Years	
Areas of Interest	Design of Machine Elements & Materials	
E-mail	hod.mech@kssem.edu.in	

Educational Details

Examination/ Degree	College / University	Year of Passing
UG	Sri Sidhartha Institute of Technology, Tumkur (SSIT) / Bangalore University	1999
PG	B.M.S.College of Engineering, Bangalore (BMSCE) / Visvesvaraya Technological University	2006
PhD	JNTUA, Anantapur	2019

Publications

Journal Publications:

1. **B.Balaji**, C.Yuvaraj and M.L.S.Devakumar, "Optimisation of Welding Process of Composite Chromium-Carbide Based Tubular Electrode for Hard facing" International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)Vol.04 (2014) PP. 39-46.
2. **B.Balaji**, C.Yuvaraj and M.L.S.Devakumar, "Investigation of Mechanical Properties of a Composite Tubular Electrode Based Hard Coating on Mild Steel Substrate" International Journal of Advanced Research Foundation (IJARF) Vol.04 (2017) PP. 06-11.
3. **B.Balaji**, C.Yuvaraj and M.L.S.Devakumar, "Experimental and Parametric Investigation of Wear Phenomenon of Composite Tubular Electrode Based Hard Facing Layers on Mild Steel Substrate" International Journal of Advancement in Engineering Technology, Management & Applied Science (IJAETMAS) Vol-05 (Jan 2018)PP- 43-51,Issue 01.

4. **Dr. Balaji B**, Abhishek M R, Suresh P M, “Variation of Tensile, Hardness, Impact and Natural Frequency in Jute/E-Glass Epoxy Composite For Varying Fiber Loading and Addition of Shear Thickening Fluid”, International Journal of Scientific Research in Science, Engineering and Technology, Vol, 9, pp. 230 – 241, 2022.
5. **Dr. Balaji B**, Abhishek M R, Arun V, “Design and Analysis of High Endurance Fixed Wing Multi-rotor UAV”, International Journal of Scientific Research in Science, Engineering and Technology, Vol. 9, Issue 2, pp. 277-287.
6. **Dr. Balaji B**, Abhishek M R, “Computational Modeling of Musculoskeleton to Predict Human Response with Upper Arm Exoskeleton”, International Journal of Scientific Research in Science, Engineering and Technology, Vol. 9, Issue 2, pp. 293-302.
7. **Dr. Balaji B**, Arun V, “Design & Performance Evaluation of 3- Blade Propeller for Multi-Rotor UAV”, International Journal of Engineering Research & Technology, Vol. 10, Issue 10, pp. 423 – 430, 2021.
8. **Dr. Balaji B**, Dr. Manjunath T K, Dr. Girish Rao Salanke, Dr. Shivakumar Dalali “Design and Implementation of an AI-Driven Driving Assessment Tool for Comprehensive Skill Evaluation”, JISEM, ISSN-2468-4376.

Conference Papers:

1. **B. Balaji**, C. Yuvaraj and M. L. S. Devakumar, “Effect of Tubular Parameters on Induced Residual Stresses in Composite Tubular Electrode Based Hardfacing”, Proceedings of the 2017 International Conference on Innovation in Materials for Extreme Environments (IMEE 2017), University of Huddersfield, United Kingdom, pp. 35-38, 22-24th November (2017).
2. Evaluation of Fracture parameters using FEA Technique (National Conference)
3. Tribological Properties of Zinc Based Aluminium Alloys (National Conference)

Text Books Published:

- AI Driven Fuel Economy: The future Intelligent Automotive Systems by CHYREN PUBLICATIONS, ISBN-978-93-49686-92-2. /03/04/2025

Awards

- Nominated as resource person to teach Design of Machine Elements in VTU E-Shikshana
Taught PRO-E & Uni-Graphics CAD software for more than 10 corporate batches to Mico-Bosch & SKF Bearings employees
- PTC Software awarded best PRO-E Teaching faculty in 1999
- Visited Shirdi Sai Engineering college as guest lecturer to teach Design of Machine Elements
- In 2015 formulated Go-Kart team in KSIT with team size of 25 students & Designed Go-Kart car, participated in all India level competition & won 5th place, every year participating in various competitions.

Professional Membership

1. MISTE
2. MIE

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