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GM UNIVERSITY

P. B. Road, Davanagere – 577 006 KARNATAKA | INDIA



Contact

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LinkedIn -

Scopus ID – 57190049671

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Web of Science Researcher ID -
C-8281-2012

Google Scholar Citations -

<https://scholar.google.com/citations?hl=en&user=y6C2S8AAAAJ>

Dr. Bharath K N

Professor in Dept. of Mechanical Engineering,
Dean – Research & Innovation

Faculty

Faculty of Engineering and Technology

School / Program

Faculty of Engineering and Technology/
B.Tech. in Mechanical Engineering

Faculty Introduction

A strong education professional with a Doctor of Philosophy (Ph.D.) in Bio-Composite Materials from Visvesvaraya Technological University and extensive postdoctoral research experience at Washington State University, USA. Proficient in failure analysis, thermal analysis, chemical processing, and the development of natural fiber composites for advanced engineering applications.

Qualifications

Post-Doctoral Fellowship (Automotive Composites)
Washington State University, Pullman, USA, 2019-2020.

Ph.D. (Bio-Composite Materials)

University B.D.T. College of Engineering, Davanagere, Visvesvaraya Technological University - Belagavi, 2016.

M. Tech. (Machine Design)

University B.D.T. College of Engineering, Davanagere, Kuvempu University, 2008.

B.E. (Mechanical Engineering)

University B.D.T. College of Engineering, Davanagere, Kuvempu University, 2006.

Experience

Teaching

- 18 years (GMIT & GMU – 17 years, UBDTCE – 01 year)

Research

- 1 year Post Doctoral Fellowship at Composite Materials & Engineering Center, Washington State University, Pullman, USA.
- Worked on two funded projects under the Center for Bioplastics and Biocomposites (CB²) and the United States Department of Agriculture (USDA), USA.



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Training Program Attended

1. "Leadership Training Program" conducted by Indian Leadership Academy on 25th and 26th June 2024 at GMU, Davanagere.
2. "Recent Trends in Composites" held at Alliance University in January 2023.
3. A workshop conducted virtually by DST & ACS on March 8, 2022.
4. An international workshop on "Hybrid Composites for Railway Applications" at **KMUTNB, Thailand**, in February 2022.
5. "3D Printing and Design" hosted by IIT Dharwad in November 2020.
6. "Modern Design of Experiment for Process Optimization" in **San Diego, USA**, in January 2020.

Research Interest

- Bio-Composite Materials
- Failure Analysis
- Polymer Composites
- Optimization
- Material Characterization

Awards & Achievements

1. **Patents:** Patent filed (Application No. 202441100217) for "Biodegradable Nanocomposite Films from Areca Husk Fibres for Food Packaging," aiming to develop sustainable packaging solutions on December 18, 2024.
2. **Research Metrics:** Citations – 2,070; H-index – 22, and I10-index – 43 (Source: Google Scholar Citations).
3. Awarded "**Seed Money to Young Scientist for Research**" by VGST, Government of Karnataka, in 2015.
4. Secured total research funding of Rs.1.52 Crore from various funding agencies.
5. "**Faculty Excellence Award – 2024**": Presented on the occasion of Founder's Day for academic excellence and dedicated service to GM Group of Institutions.
6. Featured in the "**World Scientist and University Rankings**" by AD Scientific Index for the years 2023, 2024 and 2025.
7. Recipient of the "**Young Achiever of the Year 2020**" award by Perficio Awards (DHS Foundation) in collaboration with Campbell University, USA.
8. Received the "**Certificate of Outstanding Contribution in Reviewing**" from Elsevier for contributions to Carbohydrate Polymers and Ciencia & Tecnologia dos Materiais journals.
9. **Editorial Board Member** for more than five international journals, including publications by Springer.



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10. Acted as a **Reviewer** for over 75 international journals from reputed publishers.
11. Served as **Guest Editor** for a special issue in the Journal of Research in Science, Technology, Engineering, and Management (JoRSTEM).
12. Received **Two Best Research Paper Awards** in national and international conferences.
13. Delivered over 20 **Invited Talks** on sustainable composites and engineering research.
14. **Guest of Honor** at the National Conference on Business Transformation, Strategy, and Sustainability held on June 29, 2024, at Kirloskar Institute of Management, Harihar.
15. Established **Research Collaborations** with researchers from the USA, Thailand, Malaysia, Indonesia, UAE, and Russia.
16. Accomplished **Basketball professional** with extensive experience as a player, captain, coach, and director, having represented University and Karnataka State at various National and Inter-University levels.

Publication / Patents

**Books – 3 | Book Chapters – 10 | Journal Papers – 60 |
Conferences – 47 | Patent Filed – 1**

- Ph.D. Dissertation:
“Development and Characteristics of Coconut Leaf Sheath Reinforced Composites”
- Book Published:
 1. “Biodegradable Composites: Sustainable Engineering Solutions for Zero Waste Manufacturing”, Elsevier Publication, ISBN: 9780443455285. (Under Process)
 2. “Light Weight Materials for Electric Vehicles (EVs)”- Sustainable Materials, Production Process and modeling Techniques, CRC Press/Taylor & Francis Publication. (Under Process)
 3. “Hybrid Natural Fiber Reinforced Polymer Composites”, LAP Publication, Germany. (ISBN - 978-3-659-10391-9), May 2012.
- Chapters/Papers in Edited Books/Proceedings:
 1. “Evolution And Recent Advancements of Composite Materials in Sports Applications”, book chapter in “Applications of Composite Materials in Engineering”, Elsevier Publication (Scopus Indexed), 2024, ISBN: 978-0-443-13989-5. <https://doi.org/10.1016/B978-0-443-13989-5.00009-7>.
 2. “Investigation of Fracture Toughness Analysis on Polymer Composites Using FEA”, book chapter in “Finite Element Analysis of Polymers and its Composites”, Elsevier Publication (Scopus Indexed), 2024. ISBN: 978-0-443-14087-7. <https://doi.org/10.1016/B978-0-443-14087-7.00008-2>.



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3. “Kenaf Fibers, Their Composites And Applications”, book chapter in “Plant Fibers, their Composites, and Applications”, book, Woodhead Publishing, *Elsevier Publication* (Scopus Indexed), 2022, ISBN: 978-0-12-824528-6. <https://doi.org/10.1016/B978-0-12-824528-6.00011-4>
 4. “Optimization and Parametric Study of Drilling Characteristics on Sheep Wool Reinforced Composites”, book chapter in “Advances in Bio-Based Fibers” book, *Elsevier Publication* (Scopus Indexed), 2021, ISBN: 978-0-12-824543-9. <https://doi.org/10.1016/B978-0-12-824543-9.00018-9>.
 5. “Bamboo: A Potential Natural Material for Bio-composites” book chapter in “Bamboo Fiber Composites” book, *Springer Nature Publication* (Scopus Indexed), pp 15-37, Nov 2020, ISBN 978-981-15-8488-6. https://doi.org/10.1007/978-981-15-8489-3_2.
 6. “Fracture Analysis on Silk and Glass Fiber-Reinforced Hybrid Composites”, book chapter in “Hybrid Fiber Composites: Materials, Manufacturing, Process Engineering” book, *Wiley Publication*, Pages 87-97, 2020 (Scopus Indexed), ISBN 9783527346721.
 7. “Effect of Surface Modification on Characteristics of Naturally Woven Coconut Leaf Sheath Fabric as Potential Reinforcement of Composites”, book chapter in “Biofibers and Biopolymers for Biocomposites” book, *Springer Nature Publication*, Pages 285-294, 2020 (Scopus Indexed), ISBN 978-3-030-40300-3. DOI: 10.1007/978-3-030-40301-0_14.
 8. “Failure Analysis and Optimal Toughness Design of sheep-wool reinforced epoxy composites”, book chapter in “Failure analysis in Biocomposites, Fibre reinforced composites and Hybrid composites” book, *Woodhead Publishing (Elsevier Publication)*, 97-107, 2018 (Scopus Indexed), ISBN 978-0-08-102293-1.
 9. “Experimental and Analysis of Jute Fabric with Silk Fabric Reinforced Polymer Composites”, Chapter in “Thermoset Composites: Preparation, Properties and Applications” Book, *Materials Research Foundations*, ISBN 978-1-945291-86-9, Vol. 38, 66-80, 2018. DOI: 10.21741/9781945291876.
 10. “Experimental Studies on Biodegradable Property of Natural Fibers Reinforced Urea Formaldehyde Composites”, *Multidisciplinary Research* 2008, pp 7-14. ISBN- 978-81-909132-01.
- National Seminar/Symposium:



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1. "Injection Molded Basalt/Hemp Fiber Hybrid Composites" presented in Research Symposium on 2nd August 2019 at **Washington State University, USA**.
2. "Performance Evaluation of Basalt/Hemp Fiber Thermoplastic Hybrid Composite" presented in Research Symposium on 2nd August 2019 at **Washington State University, USA**.
- National Conference Papers:
 1. "Fracture Characterization of Glass-Sheep wool fabric reinforced Epoxy hybrid composite using stacking sequence", paper presented in National Conference Processing of Materials (NCOPO18), Sept 19-21, 2018, at NIT-K, Surathkal.
 2. "Statistical Analysis of Response Parameters during Electro-Chemical Discharge Machining of Crystal Glass", presented in National Conference on Advances in Mechanical Engineering (NAME 2018), 20th & 21st April 2018 at JNNCE, Shivamoga, Karnataka.
 3. "Effect of Grain Size on Compression and Hardness Properties of Rice Husk Reinforced Composite", presented in National Conference on Mechmastic -2k17, 18th May 2017 at KIT, Tiptur, Karnataka and received Best Paper award.
 4. "Effect of Maize powder on Tensile property of Areca fiber reinforced UF composites", 5th National Conference on Plastic and Rubber Technology (POLYCON-2011), 25-26 April 2011, SJCE, Mysore.
 5. "Effect of Filler Materials on Mechanical Properties of Polymer Matrix Composites", National Conference on Advances in Materials and Manufacturing Processes (AMMP-2007), Uni. B.D.T College of Engg, Davangere, Karnataka, Oct 5th -6th, 2007.
 6. "Mechanical Characterization of Areca Fiber and Maize Powder Reinforced Plastic Composites", the national conference on New Advances in Thermal, Design, Materials and Manufacturing Engineering - (NATDMME – 09) held during 5th - 7th March 2009 at Malnad College of engineering Hassan, Karnataka.
 7. "Experimental studies on tensile and bending strength of polymer matrix composites with particulate fillers", National conference on Emerging Trends in Mechanical Engineering (ETME – 2009) Oxford College of Engineering, Bangalore, Karnataka, 13th – 14th March 2009.
 8. "Wear testing of Al25 composites made through R.T.M", National conference on advances in Mechanical Engg. (AME – 2009) on 30th - 31st March 2009 held at Don Bosco College of Engg. Bangalore.



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9. “Wear Testing of Carbon Composites Made through R.T.M”, National Conference on New Advances in Thermal, Design, Materials and Manufacturing Engineering - (NATDMME – 09) held during 5th - 7th March 2009 at Malnad College of Engineering Hassan, Karnataka.
 10. “Fabrication and analysis of solar still”, National Conference on Advances in Mechanical Engineering (NCAME 2009) February 28th and March 1st, 2009, Moradabad Institute of Technology, Moradabad, U.P.
 11. “A Single Basin Double Slope Solar Still Attached with FPC” National Conference on Advances in Mechanical Engg. (AME – 2009) on 30th - 31st March 2009 held at Don Bosco College of Engg. Bangalore.
 12. “Solar Distillation Unit” National Conference on “Information Technology Trends In engineering applications” (NEC – 2009) Dayananda Sagar College of Engg, Bangalore, 19th – 21st March 2009.
 13. “Kitchen waste-based compact biogas plant”, National conference on Emerging Trends in Mechanical Engineering (ETME – 2009) Oxford College of Engineering, Bangalore, Karnataka, 13th – 14th March 2009.
 14. “Solar Water Distillation-An Ideal Solution for Water Purification” National conference on Emerging Trends in Mechanical Engineering (ETME – 2009) Oxford College of Engineering, Bangalore on 13th – 14th March 2009
- International Conference Papers:
 1. “Thermal Conductivity and Flammability Properties of CLS and Rice Husk Reinforced Polymer Composites”, paper presented in International Conference on Applied Research in Engineering Sciences (ICARES – 2022) on 24th and 25th November 2022 at Ramaiah Institute of Technology, Bengaluru.
 2. “Influence of the stacking sequence and coconut husk micro fillers on the drilling parameters of coconut leaf sheath/glass/jute fiber hybrid phenol formaldehyde composites”, paper presented in International Conference on Research, Invention, and Innovation Congress (RI2C-2021) on 1st - 2nd September 2021 at King Mongkut’s University of Technology North Bangkok, Thailand.
 3. “Design and Development of Robot Arm for Industrial Application”, paper presented in International Conference on Emerging Trends in Science, Engineering and Management – 2021 (ICETSEM - 2021) On 15th – 16th July 2021 at GM Institute of Technology, Davangere, INDIA. Received Best Paper Award.
 4. “Design and Development of Bio-Based Composites Using Sustainable Materials for Residential and Industrial Application”, paper presented in



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International Conference on Emerging Trends in Science, Engineering and Management – 2021 (ICETSEM - 2021) On 15th – 16th July 2021 at GM Institute of Technology, Davangere, INDIA.

5. “Mode-I fracture toughness evaluation of bio based short areca fibers reinforced polymer composites”, paper presented in International Conference on Computational Engineering and Material Science (ICCEMS - 2020) On 15th – 16th May 2020 at GM Institute of Technology, Davangere, INDIA.
6. “A Study of Response Parameters during ECDM on Quartz Material”, paper presented in International Conference on Computational Engineering and Material Science (ICCEMS - 2020) On 15th – 16th May 2020 at GM Institute of Technology, Davangere, INDIA.
7. “Effect of fiber orientation on the mixed mode fracture toughness of the jute fiber reinforced epoxy composite”, paper presented in International Conference on Sustainable Development during 18-20 December 2019 at Kalasalingam Academy of Research and Education, Krishnankoil, Tamil Nadu, India. Published in SSRN – Elsevier Proceedings (Scopus Indexed).
8. “Effect of Nano Fillers on Glass/ Silk Fibers Based Reinforced Polymer Composites”, paper presented in International Conference on "Advanced Trends in Mechanical & Aerospace Engineering" (ATMA) during 7-9 November 2019 at Dayananda Sagar University, School of Engineering Campus, Bangalore, India.
9. “Mechanical and Rheological Behavior of Basalt and Hemp Fiber Reinforced Thermoplastic Composites”, paper presented in Automotive Composites Conference & Exhibition (ACCE - 2019), 4th – 6th September 2019 at Novi, Michigan, USA.
10. “Effect of process parameters on tool life surface roughness and material removal rate on machining a grey cast iron using multilayer coated carbide tool” paper presented in International conference on Advances in Materials Research (ICAMR – 2019) 25th –26th July 2019 at Ramaiah University of Applied Sciences, Karnataka, India.
11. “Effect of Sodium bicarbonate on Fire behavior of filled E-Glass Reinforced Epoxy Composites”, paper presented in International Conference on Advances in Materials and Manufacturing Applications, 14th –16th July 2016 at Amrita School of Engineering, Amrita Vishwa Vidyapeetham University, Karnataka, India.
12. “ANOVA and Response Surface Methodology for the Optimization of Fracture Toughness parameters on Jute Fabric-Epoxy composites using SENB specimens” paper presented on 23rd and 24th September 2016 in International Conference on Advanced Materials, Manufacturing, Management and Thermal Sciences (AMMMT – 2016), Siddaganga Institute of Technology, Tumkur, Karnataka, India.



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13. "Optimization of Notch Parameter on Fracture Toughness of Natural Fiber Reinforced Composites Using Taguchi Method", paper presented in International Conference on Fatigue, Durability & Fracture Mechanics, 28-30th May 2015 at Indian Institute of Science (IISc), Bangalore.
14. "Differential Scanning Calorimetry Analysis of Treated and Untreated Coconut leaf Sheath Natural Fabric for Composite Reinforcement" paper accepted in International Conference on "Advances in Materials, Manufacturing and Application (AmMA - 2015)" at National Institute of Technology, Trichy (NIT-T).
15. "Fourier Transform Infrared Spectroscopy and Chemical resistance of Untreated and Alkali Treated Coconut Leaf Sheath Fiber Reinforced Polymer Composites" presented in International Conference on Advances in Materials and Manufacturing Engineering (ICAMME2014) on 19th and 20th December 2014 at Chennai, India.
16. "Effect of Various Chemical Modifications on Single Fiber Tensile Test of CLS Fiber for Composite Reinforcement: An Optical Microscopic Analysis", presented in International Conference on Polymer Composites on 19th and 20th December 2014 at NIT-K, Surathkal.
17. "Flammability Characteristics of Chemical Treated Woven Natural Fabric Reinforced Phenol Formaldehyde Composites" presented in International Conference on Advances in Manufacturing and Material Engineering on 27th – 29st March, 2014 which was conducted by National Institute of Technology (NIT-K), at Surathkal, Karnataka.
18. "Evaluation of Tensile Behavior of Seashell-Jute Fabric reinforced Composites" presented in International Conference on Latest Trends in Mechanical and Product Engineering" on 8th – 9th March 2014, which was conducted in Chennai, Tamil Nadu.
19. "Thermal Degradation of Naturally Woven Fabric Reinforced Phenol Formaldehyde based Bio-Composites" presented in International Conference on Recent Advances Composite Materials" on 18th – 21st Feb 2013 which was organized by Indian Institute of Technology – BHU at Panaji, Goa.
20. "Evaluation of the Effect of Weight Fraction on the Thickness Swelling Behaviour of Hybrid Natural Fibre Reinforced Urea Formaldehyde Composites" presented in International Conference on Recent Advances Composite Materials" on 18th – 21st Feb, 2013 which was organized by Indian Institute of Technology – BHU at Panaji, Goa.
21. "Investigation on mechanical and moisture absorption properties of areca fibers and maize powder reinforced urea-formaldehyde composites", International Conference on Emerging Research and Advances in Mechanical Engineering (ERA-2009), March 19th-21st 2009, held at Velammal Engineering College, Chennai, Tamil Nadu, India.
22. "A Study on Fatigue Behavior of Connecting Rod Using FEM", International Conference on Emerging Research and Advances in Mechanical Engineering (ERA- 2009), March 19th-21st 2009, held at Velammal Engineering College, Chennai, Tamil Nadu, India.



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23. "Experimental Investigation on Biodegradable and Swelling Properties of Natural Fibers Reinforced Urea Formaldehyde Composites", International Conference on Advanced Manufacturing and Automation (INCAMA – 2009) Kalasalingham University, Tamil Nadu, 26th – 28th March 2009.
24. "Effect of Moisture Absorption on Tensile Properties of Sicc Filled Gfrp Composite Materials", International Conference on Advanced Manufacturing and Automation (INCAMA – 2009) Kalasalingham University, Tamil Nadu, 26th – 28th March 2009.
25. "Experimental Investigation on Impact Property of Polymer Matrix Composites with Sicc and Graphite Particulate Fillers" International Conference on Arts, Science, Management and Engineering, Goa, India, April 23rd - 25th 2009.
26. "Investigation on The Effect of Hybridization on Bending Properties For Various Weight Fractions Of Natural Fiber Composites" ICAMB -2009, Vellore Institute of Technology, Tamil Nadu, INDIA.
27. "Experimental Investigation on Moisture Absorption Characteristics for Various Weight Fractions of Natural Fibres Reinforced Composites", International Conference on Recent Trends in Materials and Characterization (RETMAC – 2010), National Institute of Technology, Suratkal, Karnataka, India.
28. "Solar Still Integrated with Flat Plate Collector". International Conference on Issues and Challenges in Energy Conversion and Management (ICEM – 2009) on Dec 18th - 20th, 2009 held at Banaras Hindu University, Varanasi, India. Published proceedings in NAROSA PUBLICATION.
29. "Design and Performance Evaluation of Hybrid Solar Still" International Conference on "Control, Automation, Communication and Energy Conservation -2009, 4th-6th June 2009, Perundurai, Tamil Nadu, INDIA. Published in IEEE Xplore Digital Library and proceedings in ALLIED PUBLISHERS (Scopus Indexed).
30. "A Double Slope Solar Still Integrated with Solar Collector and Storage Tank", ICAMB -2009, Vellore Institute of Technology, Tamil Nadu, INDIA.
31. "Solar Still coupled With Flat Plate Collector", International Conference on FFES- 2009 held at IIT Kharagpur, Dec 17th – 19th 2009.
32. "A Double Slope Solar Still Augmented with Flat Plate Collector and Storage Tank", International Conference on convergence of science & engineering in education and research - 2010, Dayananda Sagar College of Engg., Bangalore, India.
33. "Dry Sliding Wear Behavior of A356/Sicc-Gr Composites", International Conference on Tribology of Automotive Systems, IIT – Delhi, India.



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- International Journal Papers:

1. “Comprehensive Characterization of Raw and Oxalic Acid Treated Ripen Cellulosic Biofiber from Areca Catechu Inflorescence as Substitute for Harmful Synthetic Products”, *Journal of Research Updates in Polymer Science* (Scopus Indexed). <https://doi.org/10.6000/1929-5995.2025.14.04>.
2. “Review of Image Processing Methods for Surface and Tool Condition Assessments in Machining”, *Journal of Manufacturing and Materials Processing* (Scopus Indexed), MDPI Publication, 2024. <https://doi.org/10.3390/jmmp8060244>.
3. “Mechanical and micro-structural characterization of biodegradable coir fiber–glass sheet–charcoal reinforced polymer composite: an experimental approach”, *Discover Polymer*, Springer – Nature Publication, 2024. <https://doi.org/10.1007/s44347-024-00009-x>.
4. “Mechanical Behavior and Sliding Wear Assessment of Al₂O₃/TiC Metal Matrix Composites Using Taguchi and Spotted Hyena Optimization”, *Scientia Iranica* (Scopus Indexed), 2024. <https://doi.org/10.24200/SCI.2024.57484.5261>.
5. “Simulation of Various Fracture Models by Varying Geometrical Parameters Using Taguchi’s DOE”, *Structural Integrity and Life* (Scopus Indexed), 2023. <http://divk.inovacionicentar.rs/ivk/ivk23/OF2302-15.html>.
6. “Recent progress in the research on natural composite brake pads: a comprehensive review”, *Tribology - Materials, Surfaces & Interfaces* (Scopus Indexed), Taylor and Francis Publication, 2023. <https://doi.org/10.1080/17515831.2023.2237810>.
7. “Investigation on performance of hybrid coating of hydroxyapatite and reduced graphene oxide on polyether ether ketone for orthopaedic application”, *Progress in Additive Manufacturing* (Scopus Indexed), Springer Publication, 2023. <https://doi.org/10.1007/s40964-023-00464-1>.
8. “Development of banana fabric incorporated polymer composites for printed circuit board application”, *Biomass Conversion and Biorefinery* (Scopus Indexed), Springer Publication, 2023. <https://doi.org/10.1007/s13399-023-04249-y>.
9. “Effect of stacking sequence and interfacial analysis of biomass sheep wool/glass fiber reinforced epoxy biocomposites”, *Biomass Conversion and Biorefinery* (Scopus Indexed), Springer Publication, 2023. <https://doi.org/10.1007/s13399-023-03918-2>.
10. “An evaluation on Mechanical Properties of Vacuum bagging processed Kenaf epoxy nano aluminium oxide and nano graphene composites”, *Engineering Research Express* (Scopus Indexed), 2023. <https://doi.org/10.1088/2631-8695/acc996>.



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11. "Study on Tearing Strength of Woven Sisal Fabrics for tents and polymer composite applications", Journal of Natural Fiber (Scopus Indexed), Taylor and Francis Publication, 2023. <https://doi.org/10.1080/15440478.2023.2165590>.
12. "Understanding the Interfacial Interaction of TiO₂ Nano particles Filled Glass Fiber/Epoxy Composites through Dynamic Mechanical Analysis", Composite Interfaces (Scopus Indexed), Taylor and Francis Publication, 2023. <https://doi.org/10.1080/09276440.2023.2176058>.
13. "Physical Properties of Kenaf epoxy nano aluminium oxide and nano graphene composites; Vacuum bagging process", Published in Journal of Applied Polymer Science (Scopus Indexed), Wiley Publication, 2022. <https://doi.org/10.1002/app.53374>.
14. "Study of Treatment Effect on the Cocos Nucifera Lignocellulosic Fibers as Alternative for Polymer Composites", Journal of Natural Fiber (Scopus Indexed), Taylor and Francis Publication, 2022. <https://doi.org/10.1080/15440478.2022.2134257>.
15. "Effect of Nano-Filler Aluminium Oxide and Graphene on Flammability Properties of Kenaf-Epoxy Composites", Journal of The Institution of Engineers (India): Series D (Scopus Indexed), Springer publication, 2022. <https://doi.org/10.1007/s40033-022-00390-6>.
16. "Effects of residual stresses on interlaminar radial strength of Glass-Epoxy L-bend composite laminates", Frattura ed Integrità Strutturale (Scopus Indexed), 61 (2022) 140-153. <https://doi.org/10.3221/IGF-ESIS.61.10>.
17. "Waste Coconut Leaf Sheath as Reinforcement Composite Material with Phenol Formaldehyde Matrix", Polymer Composites, Wiley Publication (Scopus Indexed), 2022. <https://doi.org/10.1002/pc.26513>.
18. "An artificial neural network prediction on physical, mechanical, and thermal characteristics of giant reed fiber reinforced polyethylene terephthalate composite", Journal of Industrial Textiles, Sage Publication (Scopus Indexed), 2021, <https://doi.org/10.1177/15280837211064804>.
19. "Nanoparticles Filled Polymer Nanocomposites: A Technological Review", Cogent Engineering, Taylor and Francis (Scopus Indexed), 2021, <https://doi.org/10.1080/23311916.2021.1991229>.
20. "Influence of the stacking sequence and coconut husk micro fillers on the drilling parameters of coconut leaf sheath/glass/jute fiber hybrid phenol formaldehyde composites", Materials Today: Proceedings, Elsevier Publication (Scopus Indexed), 2021, <https://doi.org/10.1016/j.matpr.2021.10.422>.
21. "Characterization of Natural Cellulosic Fiber from Cocos Nucifera Peduncle for Sustainable Biocomposites", Journal of Natural Fibers,



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- Taylor and Francis (Scopus Indexed), 2021, <https://doi.org/10.1080/15440478.2021.1982827>.
22. "Synergistic effect of ZnO and TiO₂ nanoparticles on the thermal stability and mechanical properties of glass fiber reinforced LY556 epoxy composites", *Polymer Composites*, Wiley Publication (Scopus Indexed), 2021. <https://doi.org/10.1002/pc.26193>
 23. "Effect of nano fillers on glass/silk fibers based reinforced polymer composites", *Materials Today: Proceedings*, Elsevier Publication (Scopus Indexed), May 2021. <https://doi.org/10.1016/j.matpr.2021.05.383>.
 24. "Mechanical and Chemical Properties Evaluation of Sheep Wool Fiber Reinforced Vinyl ester and Polyester Composites", *Materials Performance and Characterization*, ASTM International (Scopus Indexed), 10 (1):1-11, 2021. DOI: 10.1520/MPC20200036.
 25. "Optimization of Process Parameters of Fracture Toughness Using Simulation Technique Considering Aluminum–Graphite Composites" *Transactions of the Indian Institute of Metals* (Scopus Indexed) Springer Publication, November 2020. <https://link.springer.com/article/10.1007/s12666-020-02113-5>.
 26. "Mode-I fracture toughness evaluation of bio based short areca fibers reinforced polymer composites", *IOP: Materials Science and Engineering* (Scopus Indexed), Vol. 925, Oct 2020, DOI: 10.1088/1757-899x/925/1/012010.
 27. "A Study of Response Parameters during ECDM on Quartz Material", *IOP: Materials Science and Engineering* (Scopus Indexed), Vol. 925, Oct 2020, DOI: 10.1088/1757-899x/925/1/012053.
 28. "Effect of process parameters on tool life surface roughness and material removal rate on machining a grey cast iron using multilayer coated carbide tool". *AIP Conference Proceedings* (Scopus Indexed), 2274, 2020, <https://doi.org/10.1063/5.0022871>.
 29. "A Novel Approach for Development of Printed Circuit Board from Bio-Fiber Based Composites", *Polymer Composites*, Wiley Publication (Scopus Indexed), July 2020. <https://doi.org/10.1002/pc.25732>.
 30. "Alkaline Effect on Characterization of Discarded Waste of Moringa oleifera Fiber as a Potential Eco friendly Reinforcement for Biocomposites", *Journal of Polymers and the Environment*, Springer Nature Publication (Scopus Indexed), July 2020. <https://doi.org/10.1007/s10924-020-01818-4>.
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33. "Generation of mechanically mixed layer during wear in hybrid aluminum MMC under as-cast and age hardened conditions", *SN Applied Sciences* (Scopus Indexed), Springer Nature publication, 2019. <https://doi.org/10.1007/s42452-019-0906-5>.
34. "Development and Characterization of Hybrid Aluminum Metal Matrix Composites", *Acta Technica Corviniensis – Bulletin of Engineering*, Vol. 12 (3), pp 63-66, 2019.
35. "Characterization of Biocomposite material from naturally woven coconut leaf sheath reinforced polymer composites", *International Journal of Biosensors & Bioelectronics*, 2019, DOI: 10.15406/ijbsbe.2019.05.00166.
36. "Experimental study on mechanical properties of Woven hybrid bamboo and jute fibers reinforced Epoxy composites", *Int. Jour. of Sci. Res in Eng. and Mag.* (UGC Approved), 2019, ISSN: 2590-1892.
37. "Material characterization of SiC and Al₂O₃–reinforced hybrid aluminum metal matrix composites on wear behavior", *Advanced Composites Letters* (Scopus Indexed), Sage publication, 2019.
38. "Fracture Characterization of Glass-Sheep Wool Fabric Reinforced Epoxy Hybrid Composite using Stacking Sequence", *Journal of Instrumentation Technology & Innovation*, 2018.
39. "Investigating the contribution of geometrical parameters and immersion time on fracture toughness of jute fabric composites using statistical techniques", *Journal of Frattura ed Integrità Strutturale* (Scopus Indexed), 2018.
40. "Effect of stacking sequence on properties of coconut leaf sheath/jute/E-glass reinforced phenol formaldehyde hybrid composites", *Journal of Industrial Textiles* (Scopus Indexed), Sage Publication, 2018.
41. "Statistical Analysis of Response Parameters During Electro-Chemical Discharge Machining of Crystal Glass", *International Journal of Engineering Research and Applications* (UGC Approved), 2018.
42. "ANOVA and Response Surface Methodology for the Optimization of Fracture Toughness parameters on Jute Fabric-Epoxy composites using SENB specimens", *Materials Today* (Scopus Indexed), Elsevier Publication, 2017.
43. "Effect of Sodium bicarbonate on Fire behaviour of filled E-Glass Reinforced Epoxy Composites", *Materials Science and Engineering* (Scopus Indexed), IOP Publications, 2016.



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44. "Optimization of Notch Parameter on Fracture Toughness of Natural Fiber Reinforced composites using Taguchi Method", Journal of Materials Science & Surface Engineering (Web of Science Indexed) 2015.
45. "Applications of Bio-Composite Materials based on Natural fibers from Renewable Resources – A Review", Science and Engineering of Composite Materials, De Gruyter Publication (Scopus Indexed).
46. "Fourier Transform Infrared Spectroscopy and Chemical resistance of Untreated and Alkali Treated Coconut Leaf Sheath Fiber Reinforced Polymer Composites", Journal of Applied Mechanics and Materials, Trans Tech Publications (Scopus Indexed), 2015.
47. "Characterization of natural fiber (sheep wool) - reinforced polymer-matrix composites at different operating conditions", Journal of Industrial Textiles, Sage Publication, 2016 (Scopus Indexed).
48. "Flammability Characteristics of Chemical Treated Woven Natural Fabric Reinforced Phenol Formaldehyde Composites", Procedia Material Science, Elsevier Publication, 2014. ISSN: 2211-8128.
49. "Evaluation of Tensile Behavior of Seashell-Jute Fabric reinforced Composites", International Journal of Advanced Research in Mechanical and Production Engineering and Development, 2014, ISSN: 2320-7256.
50. "Influence of Filler Materials on Pinned Joints of Woven Glass Fiber Reinforced Epoxy Composites", Journal of Composites and Biodegradable Polymers, 2013.
51. "Effect of Alkali Treatment on Impact Behavior of Areca Fibers Reinforced Polymer Composites", International Journal of Chemical, Nuclear, Metallurgical and Materials Engineering, 2013, ISSN: 1307-6892.
52. "The Effect of Silicon Dioxide Filler on the Wear Resistance of Glass Fabric Reinforced Epoxy Composites", Polymer Science and Technology, 2012; ISSN: 2277 – 7164.
53. "Thickness Swelling Behavior of Hybrid Natural Fiber Reinforced UF Composites", Journal of Purity, Utility Reaction and Environment, ISSN: 2232-1179.
54. "Water Absorption Characteristics of Areca Fiber Reinforced Composites", International Journal of Material and Biomaterial Applications, 2012.
55. "Experimental Investigation of Thermal Properties of Areca Fiber Reinforced Phenol Formaldehyde Composites", Journal of Advanced Materials (Scopus indexed), 2011, ISSN: 10709789 2010.



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56. “Impact and Hardness properties of Areca fiber – Epoxy reinforced Composites”, Journal of Materials and Environmental Science (Scopus indexed), 2011. ISSN: 2028-2508.
57. “Adhesive Tensile and Moisture Absorption Characteristics of Natural Fibers Reinforced Urea Formaldehyde Composites”, May 2009, No.5, pp 60-62.
58. “Experimental Studies on Biodegradable and Swelling Characteristics of Natural Fibers Composites”, International Journal of Agriculture Sciences, 2010, ISSN: 0975-371.
59. “Solar Still Coupled with Solar Collector and Storage Tank”, International Journal of Research and Industry - Science and Technology, 2009. ISSN: 0975-2536.
60. “Moisture Absorption Characteristics of Areca/Maize Reinforced Hybrid Polymer. Composites”, Published in International Journal of Advanced Engineering & Application, 2010. ISSN: 0975 – 7791.

Professional Membership

1. Lifetime member of Material Research Society of India (MRSI), Indian Academy of Science, Indian Institute of Science (IISc). Membership no. - LMB 1794.
2. Life member of Asian Polymer Association (APA), New Delhi. Membership no. – L - 676.
3. Lifetime member of Indian Society for Technical Education (MISTE), New Delhi. Membership no. - LM 98219.
4. Member of Institution of Engineer’s (MIE), Kolkata . Membership no. – M-1624371.
5. Lifetime member of Karnataka State Scientific Research Council, Bengaluru. Membership no. – KS 3091.

Administrative Responsibilities

1. Served as an Expert Committee Member to **Scrutiny of the Research Supervisor applications** at Visvesvaraya Technological University, Belagavi.
2. Participating as a **Local Inspection Committee (LIC) member** for Visvesvaraya Technological University, Belagavi, during 2023-24 and 2024-25.
3. Serving as an **Evaluator** for a European Union-funded network aimed at coordinating European research programs and funding in materials science and engineering.
4. Acting as an **Expert Panel member** during the faculty recruitment process at University BDT College of Engineering, Davanagere, on 26th October 2024.



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5. As a member of the Board of Studies (BoS), contributed to the development and review of the Engineering Design Department's curriculum at GM University.
6. Examining **Ph.D. and Master Theses** for institutions such as Symbiosis International (Deemed University), Pune; Siddhartha University, Tumakuru and Davangere University.
7. Served as an **Expert Panel member** for the faculty recruitment process at Indian Institute of Technology, Dharwad (IIT-dh).
8. Contributing as an **Expert Committee member** for the Ph.D. Pre-Registration interview in Mechanical Engineering at Visvesvaraya Technological University (VTU), Belagavi.
9. Coordinating the **Board of Examiners (BOE)** for practical examination allotments at VTU during the 2022-23 academic year.
10. Holding the position of **Executive Council Member** for the University BDT College of Engineering Alumni Association from 2022-2025.
11. Being a Member of the **Board of Examination** (Mechanical Board) at VTU for the 2022-23 term.
12. Served as **Vice-President** of the Institute Innovation Council at GM Institute of Technology, under the Ministry of Education, Government of India.
13. Participating as a **Board Member for the Examination** (Industrial Production Board) at VTU during 2020-21.
14. Acting as an **External Member** of the Department Advisory Committee for Mechanical Engineering at Bapuji Institute of Technology, Davanagere.
15. Coordinating the **e-Yantra project**, hosted by IIT Bombay, to advance embedded systems and robotics education in engineering colleges under the National Mission on Education through ICT (NMEICT).
16. Evaluating funding proposals as a **Project Evaluation Committee Member** at Symbiosis International (Deemed University), Pune.
17. **Treasurer** for Post-doctoral and research professionals at Washington State University, USA.
18. Coordinating the **Unnat Bharat Abhiyan program**, a flagship initiative of the Ministry of Human Resource Development, Government of India.
19. Acting as **NBA Coordinator** (Mechanical Department) during the department's accreditation process from 2019 to 2022.
20. Leading the **R&D criteria** (C-3) for the NAAC accreditation process.
21. Acting as **Sports Coordinator** from 2009 to 2019, organizing VTU inter-collegiate tournaments.
22. Served as **Staff Secretary** for the Mechanical Forum during the academic years 2010-11 and 2017-18.
23. Contributing as **Student Union Sports Secretary** in 2005 & 2006 and Cultural Secretary in 2007 at University BDT College of Engineering.
24. Managing finances as **Student Treasurer** for the Mechanical Engineer's Forum during 2005-06 at UBDTCE.



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Workshops / FDPs / Seminars Attended

- Three-day AICTE-sponsored FDP on "Faculty Development Program for Student Induction" held at KLS GIT, Belagavi, in June 2018.
- A workshop on "Advanced Mathematical Techniques in Research and Engineering Applications" at GMIT, Davangere, in January 2018.
- Two-day Intellectual Property Rights (IPR) workshop organized by KSCST at GMIT, Davangere, in September 2018.
- One-week induction program on "Recent Advances in IC Engines – Research & Issues" conducted at GMIT, Davangere, in July 2018.
- Three-day workshop on "Incubating Relevant Engineering R&D Programs and Establishing Centers of Excellence in Engineering Colleges" at SIT, Tumakuru, in May 2015.
- One-day FDP on "Plagiarism Issues and Essential Tools for Research Write-ups" at JIT, Davangere, in April 2015.
- Two-week FDP on "Control Systems" jointly conducted by IIT Kharagpur and UBDTCE, Davangere, in December 2014.
- One-day workshop on "LATEX for Documentation" at GMIT, Davangere, in November 2013.
- Three-day workshop on "Research Methodologies and LATEX" by VTU E-Learning at GIET, Ramanagara, in July 2013.
- Two-week FDP on "Thermodynamics" conducted by IIT Bombay at UBDTCE, Davangere, in December 2012.
- A one-week FDP on "Quantitative Research Techniques" hosted by UBDTCE, Davangere, in March 2012.
- A Two-week FDP on "An Introduction to Research Methodology" hosted by UBDTCE, Davangere, in 25th June to 4th July, 2012.
- Two-day ISTE-IITB workshop on "Writing Effective Conference Papers" at ASE, Bangalore, in February 2012.
- One-week FDP on "Advances in Manufacturing and Precision Engineering" held at NITK, Surathkal, in June 2011.
- One-day FDP on "Publishing Research Articles in Journals" at BIET-MBA, Davangere, in January 2011.
- One-week FDP on "Material Science: A Fundamental Approach" at PESIT, Bangalore, in July 2010.
- One-week FDP on "Recent Developments in Tribology of Mechanical Systems" at BEC, Bagalkot, in December 2009.
- Two-day ISTE National Seminar on "Role of Faculty in the Examination System" at GMIT, Davangere, in November 2009.
- One-day seminar on "Fracture Mechanics" at BIET, Davangere, in October 2009

Workshops / FDPs / Seminars Organized

1. One day awareness program on Incubation Schemes under MSME – RAMP.
2. Organizer: "Samavesha - Episode 7" - Held under the I-STEM, IISc Bengaluru initiative on November 26, 2024. I-STEM, a national program supported by the Office of the Principal Scientific Adviser to the



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Government of India, aims to shape R&D infrastructure and support academia and industry in achieving the goal of Aatmanirbhar Bharat.

3. Research Symposium - Organized a Research Symposium on November 26-27, 2024, for GM University research scholars and faculty members under the Research and Innovation Division.
4. Prestigious Lectures - Organized a lecture by Mr. Shivakumar Mathapathi, CEO, Xtrans Solutions, California, and Adjunct Faculty at Northeastern University, San Jose Campus, on “Generative AI: Hardware and Software Implementation” on August 23, 2024. Hosted an interactive session on “Research and Innovation” by Prof. Sundaresh S. H., Oklahoma State University, on November 15, 2024.
5. BIS Standard Clubs and Project Exhibition - Coordinated the inauguration of BIS (Bureau of Indian Standards) Standard Clubs and a project exhibition on May 22, 2024.
6. Workshop on Research Methodology and IPR - Organized a workshop on Research Methodology and Intellectual Property Rights (IPR) on January 18-19, 2024, in association with KSCST, IISc Bengaluru.
7. Coordinator: 17th State-Level ISTE Student’s Annual Convention hosted at GM Institute of Technology, Davangere, Karnataka, on July 23, 2022.
8. Panel Discussion Coordinator - Coordinated a panel discussion on “NEP: Role of the Teachers” during Teachers’ Day ‘Shikshak Prav-2022’, an initiative by AICTE, Government of India, on September 8, 2022.
9. Workshop on Intellectual Property Awareness - Coordinated the Intellectual Property Awareness Program under NIPAM, Government of India, held on February 16, 2022, in collaboration with the Indian IP Office.
10. Organizing Chair: Five-Day Faculty Development Program - Conducted the program titled “Center of Excellence for Innovation, Research, and Entrepreneurship” in collaboration with the Atal Incubation Center – Jyothy Institute of Technology Foundation and ISTE, New Delhi. The event took place from September 27 to October 1, 2021, at GM Institute of Technology, Davangere, Karnataka.
11. Chief Coordinator: 14th State-Level ISTE Student’s Annual Convention and NCETERM-2017. Organized the 5th National Conference on Emerging Trends in Engineering, Research, and Management (NCETERM-2017) on September 8-9, 2017, at GM Institute of Technology, Davangere, Karnataka.

Projects Guided

- UG Projects: Guided 40+Projects
- PG Projects: Guided 07 projects

Funded Projects / Grants Received

1. "Seed money to YOUNG SCIENTIST for research award", VGST (Govt. of Karnataka) for the project entitled "Development and Performance Analysis of Bio-based fiber composites from Agricultural Byproducts for



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Engineering Applications". And received a grant of Rs. 4.00 lakhs during 2015-16.

2. A project entitled "A Novel Approach for The Development of Bio-Based Composite for Circuit Board Applications" was funded by KSCST (Govt. of Karnataka) received grants of Rs. 0.06 lakhs in the year 2016-17.
3. "Performance Evaluation of Natural Fiber-Basalt Hybrid Composite Panels" project funded by **Center for Bioplastics and Biocomposites, National Science Foundation (NSF) Industry & University Cooperative Research Center, United States of America (USA)** and received a grant of \$67,491 (Rs. 47.94 lakhs) in the year 2019-2020.
4. "Optimization of Extraction Process to Obtain Omega 3 Fatty Acids from Fish Oil and to Develop Biodiesel from Waste Oil", was funded under VTU – RGS scheme and received grants of Rs. 8.00 lakhs in the year 2021-22.
5. "Development of Biodegradable Thin Films from Bio Based Fibers for Food Packaging Applications" was funded by KSCST (Govt. of Karnataka) received grants of Rs. 0.07 lakhs in the year 2021-22.
6. "A New Approach for the Development of Bio-Fiber Based Composites for Circuit Board Applications" was funded by KSCST (Govt. of Karnataka) received grants of Rs. 0.06 lakhs in the year 2021-22.
7. "Development of Customized Static Splint Orthosis for Medical Application Using Bio-Composites", was funded by KSCST (Govt. of Karnataka) received grants of Rs. 0.07 lakhs in the year 2021-22.
8. "Experimental Investigation of Secondary Reinforcement on Kenaf Fiber Reinforced Composites For Automobile Interior Application: Vacuum Bagging Process", was funded by KSCST (Govt. of Karnataka) received grants of Rs. 0.05 lakhs in the year 2022-23.
9. "Effect of Nano Fillers on Advanced Vacuum Bagged Kenaf Fiber Reinforced Composites for Automotive Applications" was funded by KSCST (Govt. of Karnataka) received grants of Rs. 0.05 lakhs in the year 2022-23.



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10. “Customized Packaging Solutions Using Agricultural Waste” was funded under NAIN Scheme (Govt. of Karnataka) received grants of Rs. 2,67,500 during the year 2024-25.
11. Received Rs. 90 lakhs grant from AICTE to establish an IDEA Lab at GM Institute of Technology, Davanagere encouraging innovation and hands-on STEM learning.
(F.No. M/676/2025-SAGB/IDEA202000314, dated: 10-02-2025)

Invited talks / Session chair / Guest / Resource Person

1. Session Chair at National level Technical Symposium “Momentum-25” organized by Department of Mechanical Engineering, *Siddaganga Institute of Technology, Tumkuru, Karnataka* held on June 4th, 2025.
2. Resource Person for the Hands-on Workshop on “Effective Conversion of UG Projects into Research Papers” held on 12th and 13th May 2025 at *Vidyavardhaka College of Engineering, Mysuru, Karnataka*.
3. Chief Guest and Judge for "Spoorthi 2025 – Sports and Cultural fest" & "Technovate – Project Expo – 2025" held 6th May, 2025 at *SJM Institute of Technology, Chitradurga*.
4. Session Chair at the International Conference on Futuristic Advances in Mechatronics Engineering for Aerospace and Defense, jointly organized by Symbiosis Institute of Technology and the Space Society of Mechanical Engineers, SAC - ISRO, Ahmedabad, held on October 4–5, 2024, at *Symbiosis Institute of Technology, Pune*.
5. Resource Person – Delivered a talk on “Advanced Materials for Engineering Applications” at the ISTE Student Chapter on July 19, 2024, at *SJMIT, Chitradurga, Karnataka*.
6. Guest of Honor – National Conference on Business Transformation, Strategy, and Sustainability held on June 29, 2024, at *Kirloskar Institute of Management, Harihar*.
7. Resource Person – Delivered a talk on “Research Best Practices Using AI Tools” at the VTU-Sponsored Research Conclave on May 13, 2024, at *JNNCE, Shivamogga, Karnataka*.
8. Invited Speaker – Presented on “Sustainable Composites for Engineering Applications” during the VGST-Sponsored One-Week Faculty Development Program on “Mechanics of Composite Materials and Structures” held from March 11–15, 2024, at *Government Engineering College, Huvinahadagali, Karnataka*.
9. Session Chair – 21st ISME-2023 International Conference on Advances in Mechanical Engineering held on July 13, 2023, at *PES University, Bengaluru, Karnataka*.
10. Resource Person – Delivered a talk on “Writing and Publishing Research Articles” during the Faculty Development Program held on July 8, 2023, at *GMS Academy First Grade College, Davangere, Karnataka*.



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11. Adjudicator – “Biotechnology Product Mela” organized by the Department of Biotechnology, *GM Institute of Technology, Davangere* on January 10, 2022.
12. Distinguished Speaker – Four-day workshop for Intel India Pvt. Ltd. on “Sustainability: Future Concerns in Value Creation of Manufacturing and Supply Chain”, delivered a talk on “Sustainable Composite Materials for Automotive and Electronic Applications” on December 1, 2021, organized by *Siddaganga Institute of Technology, Karnataka*.
13. Speaker – Delivered a talk on “Importance of Research in Engineering Career” during the Orientation Programme for First-Year Students held on November 27, 2021, organized by *GM Institute of Technology, Davangere, Karnataka*.
14. Special Lecture – Delivered a lecture on “Characteristics of Bio-fiber and its Composites: Scope and Applications” at the Prof. C. S. Nanjunda Ram Memorial Special Lecture on September 6, 2021, organized by *Malnad College of Engineering, Hassan, Karnataka*.
15. Resource Person – Delivered a talk on “Bio-composite Materials and Its Applications” during a One-Week National-Level Faculty Development Program on “Advances in Materials and Manufacturing” held from July 12–16, 2021, at *SJM Institute of Technology, Chitradurga, Karnataka*.
16. Expert Talk – Delivered a talk on “Sustainable Composites for Engineering Applications” during the Faculty Development Program on “Recent Development of Biopolymer and Sustainable Composites for Engineering Applications” held from March 15–19, 2021, at *Sree Buddha College of Engineering, Pattoor, Alappuzha District, Kerala*.
17. Resource Person – Delivered a talk on “Characterization of Biodegradable Materials in Sustainability Development” during the AICTE-ATAL Sponsored Faculty Development Program on “Green Tribology and Sustainable Engineering” held from February 22–26, 2021, at *Canara Engineering College, Bantwal, Karnataka*.
18. Webinar Speaker – Presented on “Natural Fiber and Its Composites: Characterization and Opportunities” in a webinar organized by the Institution Innovation Council (IIC) and the Department of Mechanical Engineering, *Channabasaveshwara Institute of Technology, Gubbi, Tumakuru*, on November 28, 2020.
19. Expert Talk – Delivered a talk on “Natural Fiber Composites” during the Five-Day Faculty Development Program on “Materials Processing & Characterization: Current Perspectives (MPCCP-2020)” held from August 31–September 4, 2020, organized by *Bangalore Institute of Technology, Bengaluru*.
20. Resource Person – Delivered a talk during the Five-Day Faculty Development Program on “Recent Advances & Trends in Mechanical Engineering & Material Science” held from July 27–31, 2020, at *K. S. Institute of Technology, Bengaluru*.
21. Speaker – Delivered a talk on “Natural Fiber-Basalt Fiber Hybrid Composite Panels for Automotive Applications” at the PITCHING THE



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BUSINESS VALUE OF YOUR RESEARCH event during Research Week 3.0 on October 23, 2019, at *Washington State University, USA*.

22. Invited Speaker – Presented at the International Conference on Advanced Trends in Mechanical & Aerospace Engineering (ATMA) held from November 7–9, 2019, at *Dayananda Sagar University, School of Engineering Campus, Bengaluru, India*.
23. Session Chair – Chaired sessions at the International Conference on Advanced Trends in Mechanical & Aerospace Engineering (ATMA) held from November 7–9, 2019, at *Dayananda Sagar University, Bengaluru*.
24. Session Chair – International Conference on Computational Engineering and Material Science (ICCEMS-2020) held on May 15–16, 2020, at *GMIT, Davangere, India*.
25. Session Chair – State-Level Technical Paper Presentation “MATHEID” held at *UBDTCE, Davangere*.
26. Invited Speaker – Delivered a talk on “Importance of Higher Education” during the Campus Care-2011 event at *University BDT College of Engineering, Davangere*.
27. Chief Guest – Annual Day celebrations of Sri Taralabalu Jagadguru ICSE School, *Anubhava Mantapa, Davanagere*, on December 22, 2014.

Any Other Contributions

- **Sports**

1. Director, Davanagere Basketball Club, District Stadium, Davanagere – From 23rd August 2023 to present.
2. Coach, Kuvempu University Basketball Team – Led the team in the South Zone Inter-University Meet during the 2008–2009.
3. Captain, Kuvempu University Basketball Team – Represented the university in the South Zone Inter-University Meet held in Kerala during the 2007–2008.
4. University Blue (Five Times) – Represented Kuvempu University Basketball Team in South Zone Inter-University Meets held in Kerala and Tamil Nadu from 2002 to 2008.
5. Player, Karnataka State Basketball Team (Junior Nationals) – Competed in the National Level Championship held at Guna, Madhya Pradesh, during the 1999–2000.