



Malnad College of Engineering, Hassan

(An Autonomous Institute, Affiliated to V.T.U, Belagavi)

Faculty Biodata

GENERAL INFORMATION AND ACADEMIC BACKGROUND

PART-A

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| 1. | Name (in Block Letters) | Dr. MADHU P |
| 2. | Qualification | B.E., M.Tech., Ph.D. |
| 3. | Date of joining the service at MCE | 21/08/2013 |
| 4. | Department | Mechanical Engineering |
| 5. | Current Designation & Experience in MCE | Associate Professor & 12 years, 7 months |
| 6. | Teaching Experience: U.G. (in Years) | 12 years, 7 months |
| Research Experience (in Years) | | |
| 7. | a) Total Number of years | 11 Years |
| | b) Years spent in M. Phil. / Ph.D. | 4 Years |
| | c) Years of Guiding Ph.D. / M. Phil. | - |
| | d) Total No. of papers Published in | |
| | i. International Journals | 97 |
| | ii. National Journals | - |
| | iii. Conference Proceedings | 06 |
| | e) Total No. of Conferences/ Seminar/ Workshop Attended | |
| | i. International | 05 |
| | ii. National | 01 |
| iii. State Level | - | |
| 8. | Awards/ Prizes/ Honor's/ Recognitions | <ul style="list-style-type: none">➤ Award for Outstanding Research Publication (AORP) for 2023-24 from Vision Group on Science & Technology, Department of IT, BT, and Science & Technology, Government of Karnataka.➤ Recognized by Stanford University's list (published by Elsevier) of the World's Top 2% of the Most-Cited Scientists in Single Year Citation Impact 2021, 2022, 2023 and 2024.➤ Listed in AD Scientific Index Rankings (Ranked No. 1 MCE, Hassan) (Overall World Rankings in Mechanical Engineering - 265 Rank in India; 1327 |

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| | | <p>Rank in Asia and 4029 Rank in World) (as of July 2023 updated Data)</p> <ul style="list-style-type: none"> ➤ Young Researcher Award - 2022 for the article "A review on synthesis and characterization of commercially available natural fibers: Part-I" from the Institute of Scholars(InSc). ➤ Young Researcher (RSL078) from Global Academicians & Researchers Network (RSquareL) for the article "Characterization and properties of natural fiber polymer composites: A comprehensive review". ➤ Top cited article 2020-21 "A comprehensive review on cellulose nanocrystals and cellulose nanofibers: Pretreatment, preparation, and characterization" Polymer Composites, Wiley. ➤ Top cited article 2021-22 "A comprehensive review on cellulose nanocrystals and cellulose nanofibers: Pretreatment, preparation, and characterization" Polymer Composites, Wiley. ➤ Top cited article 2021-22 "Influence of nanofillers on biodegradable composites: A comprehensive review" Polymer Composites, Wiley. ➤ Top cited article 2022-23 "A comprehensive review on cellulose nanocrystals and cellulose nanofibers: Pretreatment, preparation, and characterization" Polymer Composites, Wiley. ➤ Top cited article 2022-23 "Carbon fiber reinforced areca/sisal hybrid composites for railway interior applications: Mechanical and morphological properties" Polymer Composites, Wiley. ➤ Top cited article 2022-23 "Recent developments and challenges in natural fiber composites: A review" Polymer Composites, Wiley. ➤ Top downloaded article 2022-23 "A comprehensive review on cellulose nanocrystals and cellulose nanofibers: Pretreatment, preparation, and characterization" Polymer Composites, Wiley. ➤ Top downloaded article 2022-23 "Sustainable recycling technologies for thermoplastic polymers and their composites: A review of the state of the art" Polymer Composites, Wiley. ➤ Highly viewed Paper 2023 "Role of Polymer Composites in Railway Sector: An Overview" Applied Science and Engineering Progress (ISSN 2673-0421). |
| 9. | Fields of Specialization under the Subject/ Discipline | Mechanical Engineering, Materials Engineering, Composite Materials |
| 10. | Orientation/ Refresher Course/ Summer School/ Winter School/ Workshops attended | 68 |

PART-B

1. List of Publications:

Articles Published:

| Sl. No. | Title | Name of the Journal, Vol. No., Year | ISSN/ ISBN/ Number |
|---------|--|---|--------------------|
| 1. | Sustainable LDPE composites reinforced with Syzygium cumini seed biofillers: Mechanical, thermal, and morphological performance assessment | Next Materials. 2026 Apr 1;11:101795 | 29498228 |
| 2. | Enhanced Mechanical and Moisture Resistance in Aramid/Epoxy Composites with Aluminum and Graphite Fillers for Precision Engineering Applications | International Journal of Precision Engineering and Manufacturing. 2026 Feb;27(2):711-27 | 20054602, 22347593 |
| 3. | Development and Comprehensive Evaluation of Centella asiatica Loaded Polyvinyl Alcohol Films for Enhanced Wound Healing Applications | Materials Chemistry and Physics. 2026 Jan 20:132109 | 02540584 |
| 4. | CNN-based leaf disease detection for rooftop gardening using multi-species image segmentation | Journal of Asian Scientific Research. 2026;16(2):190-206 | 19921454, 20772076 |
| 5. | Advancements in 3D Printed Hemp-PLA Composites: A Sustainable Approach for Additive Manufacturing | Next Research. 2025 Dec 2:101168 | 3050-4759 |
| 6. | Mechanical and moisture performance of pineapple leaf fiber/carbon fiber-eggshell reinforced epoxy composites for eco-friendly applications | Journal of the Indian Academy of Wood Science. 2025 Oct 25:1-4 | 0972172X, 09768432 |
| 7. | Mechanical enhancement of sustainable natural fiber composites through filler additives: a comprehensive review | Journal of Umm Al-Qura University for Engineering and Architecture. 2025 Oct 20:1-9 | 16588150 |
| 8. | Performance Evaluation of Blended Neem and Mahua Oil-Based Cutting Fluids in Machining of SS316 Stainless Steel | Journal of Bio-and Tribo-Corrosion. 2025 Sep;11(3):87 | 21984220, 21984239 |
| 9. | Mechanical and structural optimization of flax fiber reinforced composites through controlled gamma irradiation | iScience. 2025 Jul 18;28(7) | 25890042 |
| 10. | Development and Characterization of Al-SiC Metal Matrix Composites Through Microwave Processing and Extrusion | Applied Science and Engineering Progress. 2025 Jul 16;18(3):7652 | 26729156, 26730421 |
| 11. | Development of eco-friendly basalt filler reinforced poly (lactic acid) composites using an additive manufacturing: An experimental insights | International Journal of Biological Macromolecules. 2025 Jun 1;311:143698 | 01418130, 18790003 |
| 12. | Carbon nanotube-infused metal matrix composites: a review of recent advances and future prospects for engineering use | Sādhanā. 2025 May 10;50(2):97 | 02562499, 09737677 |
| 13. | Eco-friendly composites: exploring the potential of natural fiber reinforcement | Discover Applied Sciences. 2025 May;7(5):1-24 | 30049261 |
| 14. | Enhancing Mechanical and Tribological Properties of Hybrid Kenaf–Carbon Fiber Vinyl Ester Composites for Advanced Applications | Journal of Materials Engineering and Performance. 2025 Mar 13:1-4 | 10599495, 15441024 |
| 15. | Fabrication of raw and chemically treated biodegradable Luffa aegyptica fruit fibre-based hybrid epoxy composite: a mechanical and morphological investigation | Biomass Conversion and Biorefinery. 2025 Mar;15(6):8473-86 | 21906815, 21906823 |
| 16. | Artificial intelligence and machine learning in mechanical engineering: Current trends and future prospects | Engineering Applications of Artificial Intelligence. 2025 Feb 15;142:109910 | 09521976 |
| 17. | Gamma radiation-induced degradation of mechanical properties in Carbon/Kevlar hybrid epoxy composites for aerospace applications | Journal of Polymer Research. 2024 Dec;31(12):367 | 10229760, 15728935 |

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| 18. | Isolation and extraction of microcellulose from Alpine galanga fiber | Sustainable Chemistry and Pharmacy. 2024 Dec 1;42:101829 | 23525541 |
| 19. | Experimental and artificial neural network-based slurry erosion behavior evaluation of cast iron | International Journal on Interactive Design and Manufacturing (IJDeM). 2024 Nov;18(9):6739-49 | 19552505, 19552513 |
| 20. | Enhancing wear resistance, mechanical properties of composite materials through sisal and glass fiber reinforcement with epoxy resin and graphite filler | Journal of the Indian Chemical Society. 2024 Oct 1;101(10):101349 | 00194522 |
| 21. | A novel study on the development of sisal-jute fiber epoxy filler-based composites for brake pad application | Biomass Conversion and Biorefinery. 2024 Oct;14(19):23411-23 | 21906815, 21906823 |
| 22. | Wear behaviour of aluminium-based hybrid composites processed by equal channel angular pressing | Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology. 2024 Sep;238(9):1079-90 | 13506501, 2041305X |
| 23. | Human-Computer Interaction and Computational Intelligence: Machine Learning Approaches | In 2024 1 st International Conference on Sustainable Computing and Integrated Communication in Changing Landscape of AI (ICSCAI) 2024 Jul 4 (pp. 1-9). IEEE | - |
| 24. | Mechanical characterization and water absorption behavior of waste coconut leaf stalk fiber reinforced hybrid polymer composite: Impact of chemical treatment | Applied Science and Engineering Progress. 2024 Jul 2;17(3):7371 | 26729156, 26730421 |
| 25. | Analysis of friction and wear performance of eco-friendly basalt filler reinforced polylactic acid composite using the Taguchi approach | Journal of Thermoplastic Composite Materials. 2024 Jul;37(7):2479-504 | 08927057, 15307980 |
| 26. | Characterizing the effects of SiC and Al ₂ O ₃ on the mechanical properties of Al6082 hybrid metal matrix composites: An experimental and neural network approach | Advances in Production Engineering & Management. 2024 Jun 1;19(2):281-92 | 18546250, 18556531 |
| 27. | Development of banana fabric incorporated polymer composites for printed circuit board application | Biomass Conversion and Biorefinery. 2024 Jun;14(11):12599-612 | 21906815, 21906823 |
| 28. | Effect of sugarcane bagasse and alumina reinforcements on physical, mechanical, and thermal characteristics of epoxy composites using artificial neural networks and response surface methodology | Biomass Conversion and Biorefinery. 2024 Jun;14(11):12539-57 | 21906815, 21906823 |
| 29. | Advancing the performance of ceramic-reinforced Aluminum hybrid composites: A comprehensive review and future perspectives | Applied Science and Engineering Progress. 2024 Apr 3;17(2):7034 | 26729156, 26730421 |
| 30. | Artificial neural networks for predicting mechanical properties of Al2219-B4C-Gr composites with multireinforcements | Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science. 2024 Mar;238(6):2170-84 | 09544062, 20412983 |
| 31. | Influence of water absorption on mechanical and morphological behaviour of Roystonea-Regia/banana hybrid polyester composites | Applied Science and Engineering Progress. 2024 Feb 9;17(1):7074 | 26729156, 26730421 |
| 32. | High temperature tensile behaviour of ceramic-hybridized metal matrix composites for above-room-temperature applications | Silicon. 2024 Feb;16(3):1205-16 | 1876990X, 18769918 |
| 33. | Accelerated weathering of sustainable and micro-filler Basalt reinforced polymer biocomposites: physical, mechanical, thermal, wettability, and water absorption studies | Journal of Building Engineering. 2023 Dec 1;80:108040 | 23527102 |

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| 34. | Wear behaviour of hybrid (boron carbide-graphite) aluminium matrix composites under high temperature | Journal of Engineering and Applied Science. 2023 Dec;70(1):124 | 18196608, 24095656 |
| 35. | Enhancing tribological performance: a review of ceramic reinforced aluminium hybrid composites for high-temperature engineering applications | Hybrid Advances. 2023 Dec 1;4:100094 | 2773207X |
| 36. | Predictive analysis of slurry erosion behaviour in aluminium-based hybrid metal matrix composites: experimental and machine learning approach | Journal of Bio-and Tribo-Corrosion. 2023 Dec;9(4):70 | 21984220, 21984239 |
| 37. | Thermal analysis of sustainable and micro-filler Basalt reinforced polymer biocomposites for lightweight applications | Journal of Building Engineering. 2023 Nov 15;79:107869 | 23527102 |
| 38. | Effects of tertiary ceramic additives on the micro hardness and wear characteristics of Al ₂ O ₃ +Si ₃ N ₄ -B ₄ C-Gr hybrid composites for automotive applications | Journal of Alloys and Metallurgical Systems. 2023 Sep 1;3:100014 | 29499178 |
| 39. | Mechanical characterization of B ₄ C-Gr Al ₂ O ₃ based composites synthesized by stir casting method | Applied Science and Engineering Progress. 2023 Aug 23;16(3):6579 | 26729156, 26730421 |
| 40. | Biopolymer-based composites: an eco-friendly alternative from agricultural waste biomass | Journal of Composites Science. 2023 Jun 11;7(6):242 | 2504477X |
| 41. | Investigations on physical, mechanical, morphological and water absorption properties of ramie/hemp/kevlar reinforced vinyl ester hybrid composites | Journal of Vinyl and Additive Technology. 2023 May;29(3):555-67 | 10835601, 15480585 |
| 42. | Study of treatment effect on the Cocos nucifera lignocellulosic fibers as alternative for polymer composites | Journal of Natural Fibers. 2023 Apr 24;20(1):2134257 | 1544046X, 15440478 |
| 43. | Drilling characteristics and properties analysis of fiber reinforced polymer composites: a comprehensive review | Heliyon. 2023 Mar 1;9(3) | 24058440 |
| 44. | Conjectured hybrid power with artificial intelligence and single-axis solar tracking wind turbine | International Journal of Energy and Water Resources. 2023 Jan 24:1-7 | 25220101, 25383604 |
| 45. | Innovative polymer science: Groundbreaking materials for a sustainable future | Insight. 2023;6(1) | - |
| 46. | Effect of B ₄ C/Gr on hardness and wear behavior of Al ₂ O ₃ based hybrid composites through Taguchi and artificial neural network analysis | Catalysts. 2022 Dec 15;12(12):1654 | 20734344 |
| 47. | Extraction and characterization of natural lignocellulosic fibres from Typha angustata grass | International Journal of Biological Macromolecules. 2022 Dec 1;222:1840-51 | 01418130, 18790003 |
| 48. | Effect of layering sequence on impact properties of alkali treated phoenix pusilla fibers-glass-carbon fabrics reinforced hybrid composite laminates | Journal of Natural Fibers. 2022 Dec 1;19(13):6878-88 | 1544046X, 15440478 |
| 49. | Effect of natural filler materials on fiber reinforced hybrid polymer composites: An Overview | Journal of Natural Fibers. 2022 Nov 2;19(11):4132-47 | 1544046X, 15440478 |
| 50. | Hybrid effect of PJFs/E-glass/carbon fabric reinforced hybrid epoxy composites for structural applications | Journal of Natural Fibers. 2022 Oct 3;19(10):3742-52 | 1544046X, 15440478 |
| 51. | Microwave-assisted synthesis of poly (acrylamide-co-2-hydroxyethyl methacrylate)/chitosan semi-IPN ZnO nanocomposite membranes for food packaging applications | Journal of Materials Research and Technology. 2022 Sep 1;20:3537-48 | 22140697, 22387854 |
| 52. | Sustainable recycling technologies for thermoplastic polymers and their composites: A review of the state of the art | Polymer Composites. 2022 Sep;43(9):5831-62 | 02728397, 15480569 |
| 53. | Areca/Synthetic fibers reinforced based epoxy hybrid composites for semi-structural applications | Polymer Composites. 2022 Aug;43(8):5222-34 | 02728397, 15480569 |
| 54. | Mechanical and thermal properties of flax/carbon/kevlar based epoxy hybrid composites | Polymer Composites. 2022 Aug;43(8):5649-62 | 02728397, 15480569 |

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| 55. | A comprehensive review on the effect of synthetic filler materials on fiber-reinforced hybrid polymer composites | The Journal of the Textile Institute. 2022 Jul 3;113(7):1231-9 | 00405000, 17542340 |
| 56. | Comparative evaluation of areca/carbon/basalt fiber reinforced epoxy/bio epoxy based hybrid composites | Polymer Composites. 2022 Jul;43(7):4179-90 | 02728397, 15480569 |
| 57. | A comprehensive review on 3D printing advancements in polymer composites: technologies, materials, and applications | The International Journal of Advanced Manufacturing Technology. 2022 Jul;121(1):127-69 | 02683768, 14333015 |
| 58. | Growth and characterization of second and third order acentric studies of L-phenylalanine L-phenylalaninium malonate single crystal | Crystals. 2022 Jun 20;12(6):869 | 20734352 |
| 59. | Influence of stacking sequence on flax/kevlar hybrid epoxy composites: Mechanical and morphological studies | Polymer Composites. 2022 Jun;43(6):3782-93 | 02728397, 15480569 |
| 60. | Role of polymer composites in railway sector: an overview | Applied Science and Engineering Progress. 2022 May 27;15(2):5745 | 26729156, 26730421 |
| 61. | Structural investigation of Cu doped calcium ferrite (Ca _{1-x} Cu _x Fe ₂ O ₄ ; x= 0, 0.2, 0.4, 0.6, 0.8, 1) nanomaterials prepared by co-precipitation method | Journal of Materials Research and Technology. 2022 May 1;18:705-19 | 22140697, 22387854 |
| 62. | Recent developments and challenges in natural fiber composites: a review | Polymer Composites. 2022 May;43(5):2545-61 | 02728397, 15480569 |
| 63. | Review on nitride compounds and its polymer composites: a multifunctional material | Journal of Materials Research and Technology. 2022 May 1;18:2175-93 | 22140697, 22387854 |
| 64. | Waste coconut leaf sheath as reinforcement composite material with phenol-formaldehyde matrix | Polymer Composites. 2022 Apr;43(4):1985-95 | 02728397, 15480569 |
| 65. | A comprehensive review on polymer composites in railway applications | Polymer Composites. 2022 Mar;43(3):1238-51 | 02728397, 15480569 |
| 66. | Synthesis, Characterization and Bio-Potential Activities of Co (II) and Ni (II) Complexes with O and N Donor Mixed Ligands | Crystals. 2022 Feb 26;12(3):326 | 20734352 |
| 67. | Synthesis and Characterization of Microwave-Assisted Copolymer Membranes of Poly (vinyl alcohol)-g-starch-methacrylate and Their Evaluation for Gas Transport Properties | Polymers. 2022 Jan 17;14(2):350 | 20734360 |
| 68. | Carbon fiber reinforced areca/sisal hybrid composites for railway interior applications: Mechanical and morphological properties | Polymer Composites. 2022 Jan;43(1):160-72 | 02728397, 15480569 |
| 69. | Synthesis of atmospherically stable zero-valent iron nanoparticles (nZVI) for the efficient catalytic treatment of high-strength domestic wastewater | Catalysts. 2021 Dec 27;12(1):26 | 20734344 |
| 70. | A review on extraction, chemical treatment, characterization of natural fibers and its composites for potential applications | Polymer Composites. 2021 Dec;42(12):6239-64 | 02728397, 15480569 |
| 71. | Influence of nanofillers on biodegradable composites: a comprehensive review | Polymer Composites. 2021 Nov;42(11):5691-711 | 02728397, 15480569 |
| 72. | Bacillus-mediated silver nanoparticle synthesis and its antagonistic activity against bacterial and fungal pathogens | Antibiotics. 2021 Nov 1;10(11):1334 | 20796382 |
| 73. | Sri Unveiling the photosensitive and magnetic properties of amorphous iron nanoparticles with its application towards decontamination of water and cancer treatment | Journal of Materials Research and Technology. 2021 Nov 1;15:99-118 | 22140697, 22387854 |
| 74. | A brief study on optical and mechanical properties of an organic material: urea glutaric acid (2/1)-a third order nonlinear optical single crystal | Crystals. 2021 Oct 14;11(10):1239. | 20734352 |

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| 75. | Trends and developments in natural fiber composites | Applied Science and Engineering Progress. 2021 Oct 7;14(4):543-52 | 26729156, 26730421 |
| 76. | Pongamia pinnata shell powder filled sisal/kevlar hybrid composites: Physicomechanical and morphological characteristics | Polymer Composites. 2021 Sep;42(9):4434-47 | 02728397, 15480569 |
| 77. | A comprehensive review on cellulose nanocrystals and cellulose nanofibers: Pretreatment, preparation, and characterization | Polymer Composites. 2021 Apr;42(4):1588-630 | 02728397, 15480569 |
| 78. | A new study on flax-basalt-carbon fiber reinforced epoxy/bioepoxy hybrid composites | Polymer Composites. 2021 Apr;42(4):1891-900 | 02728397, 15480569 |
| 79. | Effect of nano fillers on glass/silk fibers based reinforced polymer composites | Materials Today: Proceedings. 2021 Jan 1;46:9032-5 | 22147853 |
| 80. | Mechanical and chemical properties evaluation of sheep wool fiber–reinforced vinylester and polyester composites | Materials Performance and Characterization. 2021 Jan 1;10(1):99-109 | 21653992 |
| 81. | Experimental investigation on the mechanical and morphological behavior of Prosopis juliflora bark fibers/E-glass/carbon fabrics reinforced hybrid polymeric composites for structural applications | Polymer Composites. 2020 Dec;41(12):4983-93 | 02728397, 15480569 |
| 82. | Preparation and characterization of new hybrid polymer composites from Phoenix pusilla fibers/E-glass/carbon fabrics on potential engineering applications: effect of stacking sequence | Polymer Composites. 2020 Nov;41(11):4572-82 | 02728397, 15480569 |
| 83. | A novel approach for development of printed circuit board from biofiber based composites | Polymer Composites. 2020 Nov;41(11):4550-8 | 02728397, 15480569 |
| 84. | 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. 2020 Nov;28(11):2823-36 | 15662543, 15728919 |
| 85. | Effect of various chemical treatments of Prosopis juliflora fibers as composite reinforcement: Physicochemical, thermal, mechanical, and morphological properties | Journal of Natural Fibers. 2020 Jun 2;17(6):833-44 | 1544046X, 15440478 |
| 86. | A new study on effect of various chemical treatments on Agave Americana fiber for composite reinforcement: Physico-chemical, thermal, mechanical and morphological properties | Polymer Testing. 2020 May 1;85:106437 | 01429418 |
| 87. | A review on synthesis and characterization of commercially available natural fibers: Part-I | Journal of Natural Fibers. 2019 Nov 17. | 1544046X, 15440478 |
| 88. | Characterization of raw and alkali treated prosopis juliflora fibers for potential polymer composite reinforcement | InIOP Conference Series: Materials Science and Engineering 2019 Nov 1 (Vol. 653, No. 1, p. 012016). IOP Publishing | - |
| 89. | Characterization of cellulosic fibre from Phoenix pusilla leaves as potential reinforcement for polymeric composites | Journal of Materials Research and Technology. 2019 May 1;8(3):2597-604 | 22140697, 22387854 |
| 90. | A review on synthesis and characterization of commercially available natural fibers: Part II | Journal of Natural Fibers. 2019 Jan 2;16(1):25-36 | 1544046X, 15440478 |
| 91. | Effect of tungsten carbide on mechanical and tribological properties of jute/sisal/E-glass fabrics reinforced natural rubber/epoxy composites | Journal of Industrial Textiles. 2018 Oct;48(4):713-37 | 15280837, 15308057 |
| 92. | Characterization and properties of natural fiber polymer composites: A comprehensive review | Journal of Cleaner Production. 2018 Jan 20;172:566-81 | 09596526, 18791786 |
| 93. | Studies on mechanical properties of bamboo/carbon fiber reinforced epoxy hybrid composites filled with SiC particulates | International Journal of Engineering Research and General Science. 2018;6(5):43-50 | 2091-2730 |
| 94. | Natural fibers and its composites for engineering applications: an overview | InSARC International Conference, Chennai India 2017 Dec 13 | - |

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| 95. | Polymer matrix-natural fiber composites: An overview | Cogent Engineering. 2018 Jan 1;5(1):1446667 | |
| 96. | Stress analysis and life estimation of gas turbine blisk for different materials of a jet engine | International Journal of Science and Research. 2016;5(6):1103-1107 | 2319-7064 |
| 97. | Electrical Power Generation by Footsteps using Piezo-electric Transducers | International Journal of Recent Trends in Engineering & Research. 2016. | 2455-1457 (E) |

Books published as author or as editor:

| Sl. No. | Title with page No. | Type of Book & Authorship | Publisher & ISSN / ISBN No. | Date of Publication | Whether Published by National / International |
|---------|---|---------------------------|---------------------------------------|---------------------|---|
| 1 | Fiber-Reinforced Polymer Composites | Authored Book | Woodhead Publishing/ 9780443275463 | 2025 | International |
| 2 | Applications of Composite Materials in Engineering | Edited Book | Woodhead Publishing/ 9780443139895 | 2024 | International |
| 3 | Advances in Bio-Based Fiber: Moving Towards a Green Society | Edited Book | Woodhead Publishing/ 9780128245439 | 2021 | International |

Chapters published in Books:

| Sl. No. | Title of the chapter | Book Title, editor & publisher | ISSN / ISBN No. |
|---------|---|--|-----------------|
| 1. | Introduction to lightweight composites | Lightweight Composites, Mrityunjay Di, Pradeep M, Manoj Gupta, Elsevier | 9780443188527 |
| 2. | Biobased polymers: Processing, properties, and engineering applications | Polymer Nano-Biocomposites, Rajeshkumar L, Hind Abdellaoui, Sanjay M R, Suchart S, Elsevier | 9780443239229 |
| 3. | Numerical analysis of eco-friendly fibers and polymers for the sustainable environment | Eco-Friendly Fiber Reinforced Polymer Composite Materials, Sanjay M R, Suchart S, Alcides L, Ryszard M. Kozlowski, Elsevier | 9780443327964 |
| 4. | The Role of Computational Approaches in Additive Manufacturing for Medical Applications | Using Computational Intelligence for Sustainable Manufacturing of Advanced Materials, Kamalakanta M, Bikash R M, Steve K A, Dillip K B, IGI Global Scientific Publishing | 9798369379745 |
| 5. | Morphology and characterization of surface-treated fibers | Surface Modification and Coating of Fibers, Polymers, and Composites, Sanjay M R, Sathish Kumar P, Ramesh Manickam, Rajeshkumar L, Suchart S, Elsevier | 9780443220296 |
| 6. | An introduction to metal matrix composites and their applications | Applications of Composite Materials in Engineering, Madhu P, Yashas Gowda T G, Binoj J S, Sanjay M R, Suchart S, Elsevier | 9780443139895 |
| 7. | Evolution and recent advancements of composite materials in rapid prototyping | Applications of Composite Materials in Engineering, Madhu P, Yashas Gowda T G, Binoj J S, Sanjay M R, Suchart S, Elsevier | 9780443139895 |
| 8. | An introduction to polymer matrix composites and their applications | Applications of Composite Materials in Engineering, Madhu P, Yashas Gowda T G, Binoj J S, Sanjay M R, Suchart S, Elsevier | 9780443139895 |

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| 9. | Prospects of synthetic fiber-reinforced polymer composites in engineering and commercial applications | Applications of Composite Materials in Engineering, Madhu P, Yashas Gowda T G, Binoj J S, Sanjay M R, Suchart S, Elsevier | 9780443139895 |
| 10. | Unveiling the potential of age hardened aluminum alloys: Strengthening solutions for engineering challenges | Hybrid composite materials: experimental and theoretical analysis, Akarsh V, Hariome S G, Sushanta K. Sethi, Springer | 9789819721030 |
| 11. | Finite element analysis of polymeric materials in day-to-day applications | Finite Element Analysis of Polymers and Composites, Sathish Kumar P, Rajeshkumar L, Sanjay M R, Suchart S, Elsevier | 9780443140877 |
| 12. | Biometric Authentication and Theft Alert System for Motorcycles Using IoT | Contemporary Solutions for Sustainable Transportation Practices, Shakerod Munuhwa, IGI Global | 9798369337554 |
| 13. | Metallic lightweight materials: properties and their applications | Lightweight and Sustainable Composite Materials, Sanjay M R, Sunita M. Doddamani, Mrityunjay Doddamani, Suchart S, Elsevier | 9780323951890 |
| 14. | Lightweight and sustainable materials for aerospace applications | Lightweight and Sustainable Composite Materials, Sanjay M R, Sunita M Doddamani, Mrityunjay Doddamani, Suchart S, Elsevier | 9780323951890 |
| 15. | Lightweight and sustainable materials for structural applications | Lightweight and Sustainable Composite Materials, Sanjay M R, Sunita M. Doddamani, Mrityunjay Doddamani, Suchart S, Elsevier | 9780323951890 |
| 16. | Introduction to plant fibers and their composites | Plant Fibers, their Composites, and Applications, Jyotishkumar P, Suchart S, Togay O, Hao Wang, Sanjay M R, Elsevier | 9780128245286 |
| 17. | Introduction to bio-based fibers and their composites | Advances in Bio-Based Fiber, Sanjay M R, Madhu P, Jyotishkumar P, Suchart S, Sergey M. Gorbatyuk, Elsevier | 9780128245439 |
| 18. | Plastics in automotive applications | Encyclopedia of Materials: Plastics and Polymers, M S J Hashmi, Elsevier | 9780128232910 |
| 19. | Mechanical, electrical and thermal behaviour of additively manufactured thermoplastic composites for high performance applications | Additive and subtractive manufacturing of composites, Sanjay M R, M K Gupta, Suchart S, Qinghua S, Springer | 9789811631832 |
| 20. | Effect of process engineering on the performance of hybrid fiber composites | Hybrid fiber composites: materials, manufacturing, process engineering, Anish Khan, Sanjay M R, Mohammad J, Suchart Siengchin, Abdullah M. Asiri, Wiley | 9783527346721 |
| 21. | Potential of natural/ synthetic hybrid composites for aerospace applications | Sustainable composites for aerospace applications, Mohammad J, Mohamed Thariq Hameed Sultan, Elsevier | 9780081021316 |

Patents:

| Sl. No. | Title of the patent | Application No. | Journal Date | Type | Published/ Granted | Grant type |
|---------|---|-----------------|--------------|-----------------------|--------------------|-----------------------|
| 1. | Eco-Friendly Venturimeter: Chemically Treated Coir Fiber Reinforced Bio-PLA Composite Via 3D Printing | 202441053537 | 02/08/2024 | Indian Utility Patent | Published | Indian Utility Patent |

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| 2. | Nano materials to replace the augment human tissues | 202441011121 | 17/02/2024 | Indian Utility Patent | Published | Indian Utility Patent |
| 3. | Device and System to Mend Polymer and Composite Sheets on Greenhouses and Polysheet Shadenet Structures | 202241044724 | 05/08/2022 | Indian Utility Patent | Published | Indian Utility Patent |
| 4. | Development of Advanced Prosthetic Device for Blind Amputees | 202141051978 | 26/03/2024 | Indian Utility Patent | Granted | Indian Utility Patent |
| 5. | Development of Toolbox Material from Hybrid Composites Reinforced with NC, NDL, NK, GF and NP-MMC | 201941045139 | 06/11/2019 | Indian Utility Patent | Published | Indian Utility Patent |
| 6. | Development of Hybrid Polymer Composites Reinforced with Prosopis Juliflora Bark Fibers, Phoenix Pusilla Leaf Fibers, Glass Fabrics and Carbon Fabrics | 202041000392 | 25/01/2023 | Indian Utility Patent | Granted | Indian Utility Patent |

Ongoing Research Projects / Consultancies

| Sl. No. | Title | Agency | Period | Grant / Amount Mobilized (Rs Lakhs) |
|---------|--|--|--------------------------------|-------------------------------------|
| 1 | Bio-Nanocomposites from organic waste for coatings and steel corrosion inhibitors | Institute for Research and Community Service, Brawijaya University | November 2023 to June 2024 | 10,63,179.56/- |
| 2 | Experimental investigation on machining performance of cutting fluids derived from blended nonedible vegetable oil | VGST, Government of Karnataka | November 2020 to February 2022 | 3,00,000/- |

2. Responsibilities in the Department and Institute / University: (DAC, DPC, BOS, BOE etc., Institutional Governance responsibilities like, Dean, Chief warden, Warden, HOD's, School/ Centre Chairperson, IQAC Coordinator etc.)

| Sl. No | Responsibilities |
|--------|---------------------------|
| 1. | Dean (Research) |
| 2. | Associate Dean (Research) |
| 3. | Convener, Technical Club |
| 4. | NIRF Coordinator |

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| 5. | Academic Council Member, MCE, Hassan |
| 6. | Department Seminar Co-Ordinator |
| 7. | Department Timetable Officer |
| 8. | Department CIE Co-Ordinator |
| 9. | Department Contineo Co-Ordinator |
| 10. | Department Project Co-Ordinator |
| 11. | Department R&D Committee Member |
| 12. | College level Interdisciplinary Projects Committee Member |
| 13. | IPR Activity Coordinator (IIC) |
| 14. | Institutional Research Advisory Committee (IRAC) |

3. Details of Teaching Related Activities

| Sl. No. | Academic Year | (B.E./ M.Tech.) | Course Title |
|---------|---------------|-----------------|------------------------------------|
| 1. | 2013-14 | M.Tech. | Finite Elements Methods |
| 2. | | B.E. | Engineering Drawing |
| 3. | | | Manufacturing Science – I |
| 4. | 2014-15 | B.E. | Engineering Drawing |
| 5. | | | Manufacturing Science – II |
| 6. | | | Manufacturing Science – I |
| 7. | | | Machine Drawing |
| 8. | | | Non-Conventional Energy Sources |
| 9. | 2015-16 | B.E. | Engineering Drawing |
| 10. | | | Manufacturing Science – II |
| 11. | 2016-17 | B.E. | Engineering Drawing |
| 12. | | | Machine Drawing |
| 13. | | | Manufacturing Science – II |
| 14. | | | Manufacturing Science – III |
| 15. | | | Production Drawing |
| 16. | 2017-18 | B.E. | Elements of Mechanical Engineering |
| 17. | | | Machine Drawing |
| 18. | | | Engineering Drawing |
| 19. | | | Manufacturing Science – III |
| 20. | | | Product Design & Manufacturing |
| 21. | 2018-19 | B.E. | Computer Aided Engineering Drawing |

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| 22. | | | Manufacturing Science – II |
| 23. | | | Project Management |
| 24. | | | Manufacturing Science-III |
| 25. | | | Modern Manufacturing Methods |
| 26. | 2019-20 | B.E. | Computer Aided Engineering Drawing |
| 27. | | | Manufacturing Science – I |
| 28. | | | Project Management |
| 29. | | | Geometric Dimensioning and Tolerancing |
| 30. | | | Production Drawing |
| 31. | | | Modern Manufacturing Methods |
| 32. | 2020-21 | B.E. | Manufacturing Science – I |
| 33. | | | Project Management |
| 34. | | | Computer Aided Engineering Drawing |
| 35. | | | Composite Materials |
| 36. | 2021-22 | B.E. | Elements of Mechanical Engineering |
| 37. | | | Computer Aided Engineering Drawing |
| 38. | | | Project Management |
| 39. | 2022-23 | B.E. | Manufacturing Science – I |
| 40. | | | Computer Aided Engineering Drawing |
| 41. | | | Introduction to Python Programming |
| 42. | | | Introduction to Mechanical Engineering |
| 43. | 2023-24 | B.E. | Computer Aided Engineering Drawing |
| 44. | | | Introduction to Mechanical Engineering |
| 45. | | | Introduction to AI & ML |
| 46. | | M.Tech | Human-Computer Interaction |
| 47. | | | Cyber Security and Cyber Law |
| 48. | 2024-25 | B.E. | Research Methodology and IPR |
| 49. | | | Social Connect and Responsibility |
| 50. | | | Introduction to Python Programming |
| 51. | 2025-26 | B.E. | Computer-Aided Engineering Drawing (CAED) |
| 52. | | | Introduction to Python Programming |

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| 53. | | Interdisciplinary Project- Based Learning |
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| Professional Development Activities | | |
|--|---|-----------|
| | Membership in profession related committees at state and national level a) At International b) At national level c) At state | 05 |
| | Participation in subject associations, conferences, seminars without paper presentation | 05 |
| | Participation in short term training courses less than one week duration in educational technology, curriculum development, professional development, Examination reforms, Institutional governance | 25 |
| | Membership/ participation in State/ Central Bodies/ Committees on Education, Research and National Development | 05 |
| | Publication of articles in newspapers, magazines, or other publications (not covered in category 3); radio talks; television programmes | - |
| | Invited Expert Talks | 01 |

PART-C

RESEARCH, PUBLICATIONS AND ACADEMIC CONTRIBUTIONS

1. Published Papers in Journals

| Sl. No. | Title | Journal with Vol. Year & Page No. | ISSN / ISBN No. | Whether peer reviewed. Impact factor, if any | No. of Co-authors | Whether you are the main author or Guide/mentor |
|---------|--|---|--------------------|--|-------------------|---|
| 1. | Sustainable LDPE composites reinforced with Syzygium cumini seed biofillers: Mechanical, thermal, and morphological performance assessment | Next Materials. 2026 Apr 1;11:101795 | 29498228 | Scopus, Q1 | 10 | Yes |
| 2. | Enhanced Mechanical and Moisture Resistance in Aramid/Epoxy Composites with Aluminum and Graphite Fillers for Precision Engineering Applications | International Journal of Precision Engineering and Manufacturing. 2026 Feb;27(2):711-27 | 20054602, 22347593 | SCIE, 3.6, Q2 | 4 | Yes |
| 3. | Development and Comprehensive Evaluation of Centella asiatica Loaded Polyvinyl Alcohol Films for Enhanced Wound Healing Applications | Materials Chemistry and Physics. 2026 Jan 20:132109 | 02540584 | SCIE, 4.7, Q1 | 10 | Yes |
| 4. | CNN-based leaf disease detection for rooftop gardening using multi-species image segmentation | Journal of Asian Scientific Research. 2026;16(2):190-206 | 19921454, 20772076 | Scopus, Q2 | 4 | Yes |
| 5. | Advancements in 3D Printed Hemp-PLA Composites: A Sustainable Approach for Additive Manufacturing | Next Research. 2025 Dec 2:101168 | 3050-4759 | - | 5 | Yes |
| 6. | Mechanical and moisture performance of pineapple | Journal of the Indian Academy of Wood | 0972172X, 09768432 | Scopus, 1.2, Q3 | 5 | Yes |

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|-----|--|---|--------------------|-----------------|---|-----|
| | leaf fiber/carbon fiber-eggshell reinforced epoxy composites for eco-friendly applications | Science. 2025 Oct 25:1-4 | | | | |
| 7. | Mechanical enhancement of sustainable natural fiber composites through filler additives: a comprehensive review | Journal of Umm Al-Qura University for Engineering and Architecture. 2025 Oct 20:1-9 | 16588150 | Scopus, Q1 | 5 | Yes |
| 8. | Performance Evaluation of Blended Neem and Mahua Oil-Based Cutting Fluids in Machining of SS316 Stainless Steel | Journal of Bio-and Tribo-Corrosion. 2025 Sep;11(3):87 | 21984220, 21984239 | Scopus, Q2 | 4 | Yes |
| 9. | Mechanical and structural optimization of flax fiber reinforced composites through controlled gamma irradiation | iScience. 2025 Jul 18;28(7) | 25890042 | Scopus, 4.1, Q1 | 7 | Yes |
| 10. | Development and Characterization of Al-SiC Metal Matrix Composites Through Microwave Processing and Extrusion | Applied Science and Engineering Progress. 2025 Jul 16;18(3):7652 | 26729156, 26730421 | Scopus, Q2 | 4 | Yes |
| 11. | Development of eco-friendly basalt filler reinforced poly (lactic acid) composites using an additive manufacturing: An experimental insights | International Journal of Biological Macromolecules. 2025 Jun 1;311:143698 | 01418130, 18790003 | SCIE, 8.5, Q1 | 6 | No |
| 12. | Carbon nanotube-infused metal matrix composites: a review of recent advances and future prospects for engineering use | Sādhanā. 2025 May 10;50(2):97 | 02562499, 09737677 | SCIE, 1.4, Q2 | 3 | No |
| 13. | Eco-friendly composites: exploring the potential of | Discover Applied Sciences. 2025 May;7(5):1-24 | 30049261 | Scopus, Q2 | - | Yes |

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|-----|--|--|--------------------|-----------------|---|-----|
| | natural fiber reinforcement | | | | | |
| 14. | Enhancing Mechanical and Tribological Properties of Hybrid Kenaf–Carbon Fiber Vinyl Ester Composites for Advanced Applications | Journal of Materials Engineering and Performance. 2025 Mar 13:1-4 | 10599495, 15441024 | SCIE, 2.0, Q2 | 4 | Yes |
| 15. | Fabrication of raw and chemically treated biodegradable Luffa aegyptica fruit fibre-based hybrid epoxy composite: a mechanical and morphological investigation | Biomass Conversion and Biorefinery. 2025 Mar;15(6):8473-86 | 21906815, 21906823 | SCIE, 4.1, Q2 | 6 | Yes |
| 16. | Artificial intelligence and machine learning in mechanical engineering: Current trends and future prospects | Engineering Applications of Artificial Intelligence. 2025 Feb 15;142:109910 | 09521976 | SCIE, 8.0, Q1 | 1 | Yes |
| 17. | Gamma radiation-induced degradation of mechanical properties in Carbon/Kevlar hybrid epoxy composites for aerospace applications | Journal of Polymer Research. 2024 Dec;31(12):367 | 10229760, 15728935 | SCIE, 2.8, Q2 | 3 | No |
| 18. | Isolation and extraction of microcellulose from Alpine galanga fiber | Sustainable Chemistry and Pharmacy. 2024 Dec 1;42:101829 | 23525541 | SCIE, 5.8, Q1 | 6 | No |
| 19. | Experimental and artificial neural network-based slurry erosion behavior evaluation of cast iron | International Journal on Interactive Design and Manufacturing (IJIDeM). 2024 Nov;18(9):6739-49 | 19552505, 19552513 | Scopus, 2.5, Q2 | 5 | Yes |
| 20. | Enhancing wear resistance, mechanical properties of composite materials through sisal and glass fiber | Journal of the Indian Chemical Society. 2024 Oct 1;101(10):101349 | 00194522 | SCIE, 3.4, Q2 | 2 | Yes |

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|-----|---|--|--------------------|---------------------|---|-----|
| | reinforcement with epoxy resin and graphite filler | | | | | |
| 21. | A novel study on the development of sisal-jute fiber epoxy filler-based composites for brake pad application | Biomass Conversion and Biorefinery. 2024 Oct;14(19):23411-23 | 21906815, 21906823 | SCIE, 4.1, Q2 | 6 | No |
| 22. | Wear behaviour of aluminium-based hybrid composites processed by equal channel angular pressing | Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology. 2024 Sep;238(9):1079-90 | 13506501, 2041305X | Scopus, Q2 | 2 | Yes |
| 23. | Human-Computer Interaction and Computational Intelligence: Machine Learning Approaches | In 2024 1 st International Conference on Sustainable Computing and Integrated Communication in Changing Landscape of AI (ICSCAI) 2024 Jul 4 (pp. 1-9). IEEE | - | IEEE, Peer reviewed | 6 | No |
| 24. | Mechanical characterization and water absorption behavior of waste coconut leaf stalk fiber reinforced hybrid polymer composite: Impact of chemical treatment | Applied Science and Engineering Progress. 2024 Jul 2;17(3):7371 | 26729156, 26730421 | Scopus, Q2 | 6 | No |
| 25. | Analysis of friction and wear performance of eco-friendly basalt filler reinforced polylactic acid composite using the Taguchi approach | Journal of Thermoplastic Composite Materials. 2024 Jul;37(7):2479-504 | 08927057, 15307980 | SCIE, 3.4, Q1 | 5 | No |
| 26. | Characterizing the effects of SiC and Al ₂ O ₃ on the mechanical properties of Al6082 hybrid metal matrix composites: An experimental and neural network approach | Advances in Production Engineering & Management. 2024 Jun 1;19(2):281-92 | 18546250, 18556531 | SCIE, 1.125, Q2 | 4 | No |

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|-----|---|--|--------------------|---------------|---|-----|
| 27. | Development of banana fabric incorporated polymer composites for printed circuit board application | Biomass Conversion and Biorefinery. 2024 Jun;14(11):12599-612 | 21906815, 21906823 | SCIE, 4.1, Q2 | 6 | No |
| 28. | Effect of sugarcane bagasse and alumina reinforcements on physical, mechanical, and thermal characteristics of epoxy composites using artificial neural networks and response surface methodology | Biomass Conversion and Biorefinery. 2024 Jun;14(11):12539-57 | 21906815, 21906823 | SCIE, 4.1, Q2 | 3 | No |
| 29. | Advancing the performance of ceramic-reinforced Aluminum hybrid composites: A comprehensive review and future perspectives | Applied Science and Engineering Progress. 2024 Apr 3;17(2):7034 | 26729156, 26730421 | Scopus, Q2 | 5 | Yes |
| 30. | Artificial neural networks for predicting mechanical properties of Al2219-B4C-Gr composites with multireinforcements | Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science. 2024 Mar;238(6):2170-84 | 09544062, 20412983 | SCIE, 1.7, Q2 | 5 | Yes |
| 31. | Influence of water absorption on mechanical and morphological behaviour of Roystonea-Regia/banana hybrid polyester composites | Applied Science and Engineering Progress. 2024 Feb 9;17(1):7074 | 26729156, 26730421 | Scopus, Q2 | 3 | Yes |
| 32. | High temperature tensile behaviour of ceramic-hybridized metal matrix composites for above-room-temperature applications | Silicon. 2024 Feb;16(3):1205-16 | 1876990X, 18769918 | SCIE, 3.3, Q2 | 5 | No |
| 33. | Accelerated weathering of sustainable and micro-filler Basalt reinforced | Journal of Building Engineering. 2023 Dec 1;80:108040 | 23527102 | SCIE, 7.4, Q1 | 3 | No |

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|-----|---|--|--------------------|------------|---|-----|
| | polymer biocomposites: physical, mechanical, thermal, wettability, and water absorption studies | | | | | |
| 34. | Wear behaviour of hybrid (boron carbide-graphite) aluminium matrix composites under high temperature | Journal of Engineering and Applied Science. 2023 Dec;70(1):124 | 18196608, 24095656 | Scopus, Q2 | 5 | No |
| 35. | Enhancing tribological performance: a review of ceramic reinforced aluminium hybrid composites for high-temperature engineering applications | Hybrid Advances. 2023 Dec 1;4:100094 | 2773207X | DOAJ, Q2 | 2 | No |
| 36. | Predictive analysis of slurry erosion behaviour in aluminium-based hybrid metal matrix composites: experimental and machine learning approach | Journal of Bio-and Tribo-Corrosion. 2023 Dec;9(4):70 | 21984220, 21984239 | Scopus, Q2 | 4 | No |
| 37. | Thermal analysis of sustainable and micro-filler Basalt reinforced polymer biocomposites for lightweight applications | Journal of Building Engineering. 2023 Nov 15;79:107869 | 23527102 | DOAJ, Q1 | 4 | No |
| 38. | Effects of tertiary ceramic additives on the micro hardness and wear characteristics of Al ₂ O ₃ +Si ₃ N ₄ -B ₄ C-Gr hybrid composites for automotive applications | Journal of Alloys and Metallurgical Systems. 2023 Sep 1;3:100014 | 29499178 | DOAJ, Q1 | 5 | No |
| 39. | Mechanical characterization of B ₄ C-Gr Al ₂ O ₃ based composites synthesized by stir casting method | Applied Science and Engineering Progress. 2023 Aug 23;16(3):6579 | 26729156, 26730421 | Scopus, Q2 | 5 | Yes |

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|-----|---|--|--------------------|-------------------|----|-----|
| 40. | Biopolymer-based composites: an eco-friendly alternative from agricultural waste biomass | Journal of Composites Science. 2023 Jun 11;7(6):242 | 2504477X | Scopus, 3.7, Q1 | 5 | Yes |
| 41. | Investigations on physical, mechanical, morphological and water absorption properties of ramie/hemp/kevlar reinforced vinyl ester hybrid composites | Journal of Vinyl and Additive Technology. 2023 May;29(3):555-67 | 10835601, 15480585 | SCIE, 3.6, Q2 | 5 | Yes |
| 42. | Study of treatment effect on the Cocos nucifera lignocellulosic fibers as alternative for polymer composites | Journal of Natural Fibers. 2023 Apr 24;20(1):2134257 | 1544046X, 15440478 | SCIE, 3.1, Q2 | 6 | Yes |
| 43. | Drilling characteristics and properties analysis of fiber reinforced polymer composites: a comprehensive review | Heliyon. 2023 Mar 1;9(3) | 24058440 | Scopus, 3.6, Q1 | 10 | No |
| 44. | Conjectured hybrid power with artificial intelligence and single-axis solar tracking wind turbine | International Journal of Energy and Water Resources. 2023 Jan 24:1-7 | 25220101, 25383604 | Scopus, Q3 | 5 | No |
| 45. | Innovative polymer science: Groundbreaking materials for a sustainable future | Insight. 2023;6(1) | - | Peer reviewed, Q3 | 1 | Yes |
| 46. | Effect of B4C/Gr on hardness and wear behavior of Al2618 based hybrid composites through Taguchi and artificial neural network analysis | Catalysts. 2022 Dec 15;12(12):1654 | 20734344 | SCIE, 4.0, Q2 | 5 | Yes |
| 47. | Extraction and characterization of natural lignocellulosic fibres from Typha angustata grass | International Journal of Biological Macromolecules. 2022 Dec 1;222:1840-51 | 01418130, 18790003 | SCIE, 8.5, Q1 | 9 | No |

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|-----|--|---|--------------------|---------------|---|-----|
| 48. | Effect of layering sequence on impact properties of alkali treated phoenix pusilla fibers-glass-carbon fabrics reinforced hybrid composite laminates | Journal of Natural Fibers. 2022 Dec 1;19(13):6878-88 | 1544046X, 15440478 | SCIE, 3.1, Q2 | 7 | Yes |
| 49. | Effect of natural filler materials on fiber reinforced hybrid polymer composites: An Overview | Journal of Natural Fibers. 2022 Nov 2;19(11):4132-47 | 1544046X, 15440478 | SCIE, 3.1, Q2 | 4 | Yes |
| 50. | Hybrid effect of PJFs/E-glass/carbon fabric reinforced hybrid epoxy composites for structural applications | Journal of Natural Fibers. 2022 Oct 3;19(10):3742-52 | 1544046X, 15440478 | SCIE, 3.1, Q2 | 8 | Yes |
| 51. | Microwave-assisted synthesis of poly (acrylamide-co-2-hydroxyethyl methacrylate)/chitosan semi-IPN ZnO nanocomposite membranes for food packaging applications | Journal of Materials Research and Technology. 2022 Sep 1;20:3537-48 | 22140697, 22387854 | SCIE, 6.6, Q1 | 9 | No |
| 52. | Sustainable recycling technologies for thermoplastic polymers and their composites: A review of the state of the art | Polymer Composites. 2022 Sep;43(9):5831-62 | 02728397, 15480569 | SCIE, 4.7, Q1 | 8 | No |
| 53. | Areca/Synthetic fibers reinforced based epoxy hybrid composites for semi-structural applications | Polymer Composites. 2022 Aug;43(8):5222-34 | 02728397, 15480569 | SCIE, 4.7, Q1 | 5 | No |
| 54. | Mechanical and thermal properties of flax/carbon/kevlar based epoxy hybrid composites | Polymer Composites. 2022 Aug;43(8):5649-62 | 02728397, 15480569 | SCIE, 4.7, Q1 | 5 | No |

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|-----|---|--|--------------------|-----------------|----|-----|
| 55. | A comprehensive review on the effect of synthetic filler materials on fiber-reinforced hybrid polymer composites | The Journal of the Textile Institute. 2022 Jul 3;113(7):1231-9 | 00405000, 17542340 | Scopus, 1.5, Q2 | 4 | Yes |
| 56. | Comparative evaluation of areca/carbon/basalt fiber reinforced epoxy/bio epoxy based hybrid composites | Polymer Composites. 2022 Jul;43(7):4179-90 | 02728397, 15480569 | SCIE, 4.7, Q1 | 4 | No |
| 57. | A comprehensive review on 3D printing advancements in polymer composites: technologies, materials, and applications | The International Journal of Advanced Manufacturing Technology. 2022 Jul;121(1):127-69 | 02683768, 14333015 | SCIE, 3.1, Q1 | 7 | No |
| 58. | Growth and characterization of second and third order acentric studies of L-phenylalanine L-phenylalaninium malonate single crystal | Crystals. 2022 Jun 20;12(6):869 | 20734352 | SCIE, 2.4, Q2 | 11 | No |
| 59. | Influence of stacking sequence on flax/kevlar hybrid epoxy composites: Mechanical and morphological studies | Polymer Composites. 2022 Jun;43(6):3782-93 | 02728397, 15480569 | SCIE, 4.7, Q1 | 7 | Yes |
| 60. | Role of polymer composites in railway sector: an overview | Applied Science and Engineering Progress. 2022 May 27;15(2):5745 | 26729156, 26730421 | Scopus, Q2 | 3 | Yes |
| 61. | Structural investigation of Cu doped calcium ferrite (Ca _{1-x} Cu _x Fe ₂ O ₄ ; x= 0, 0.2, 0.4, 0.6, 0.8, 1) nanomaterials prepared by co-precipitation method | Journal of Materials Research and Technology. 2022 May 1;18:705-19 | 22140697, 22387854 | SCIE, 6.6, Q1 | 12 | No |
| 62. | Recent developments and challenges in natural | Polymer Composites. 2022 May;43(5):2545-61 | 02728397, 15480569 | SCIE, 4.7, Q1 | 5 | No |

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|-----|--|---|--------------------|---------------|----|-----|
| | fiber composites: a review | | | | | |
| 63. | Review on nitride compounds and its polymer composites: a multifunctional material | Journal of Materials Research and Technology. 2022 May 1;18:2175-93 | 22140697, 22387854 | SCIE, 6.6, Q1 | 9 | Yes |
| 64. | Waste coconut leaf sheath as reinforcement composite material with phenol-formaldehyde matrix | Polymer Composites. 2022 Apr;43(4):1985-95 | 02728397, 15480569 | SCIE, 4.7, Q1 | 6 | Yes |
| 65. | A comprehensive review on polymer composites in railway applications | Polymer Composites. 2022 Mar;43(3):1238-51 | 02728397, 15480569 | SCIE, 4.7, Q1 | 7 | No |
| 66. | Synthesis, Characterization and Bio-Potential Activities of Co (II) and Ni (II) Complexes with O and N Donor Mixed Ligands | Crystals. 2022 Feb 26;12(3):326 | 20734352 | SCIE, 2.4, Q2 | 10 | No |
| 67. | Synthesis and Characterization of Microwave-Assisted Copolymer Membranes of Poly (vinyl alcohol)-g-starch-methacrylate and Their Evaluation for Gas Transport Properties | Polymers. 2022 Jan 17;14(2):350 | 20734360 | SCIE, 4.9, Q1 | 8 | No |
| 68. | Carbon fiber reinforced areca/sisal hybrid composites for railway interior applications: Mechanical and morphological properties | Polymer Composites. 2022 Jan;43(1):160-72 | 02728397, 15480569 | SCIE, 4.7, Q1 | 4 | No |
| 69. | Synthesis of atmospherically stable zero-valent iron nanoparticles (nZVI) for the efficient catalytic treatment of high-strength domestic wastewater | Catalysts. 2021 Dec 27;12(1):26 | 20734344 | SCIE, 4.0, Q2 | 7 | No |

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|-----|---|--|--------------------|---------------|----|-----|
| 70. | A review on extraction, chemical treatment, characterization of natural fibers and its composites for potential applications | Polymer Composites. 2021 Dec;42(12):6239-64 | 02728397, 15480569 | SCIE, 4.7, Q1 | 3 | No |
| 71. | Influence of nanofillers on biodegradable composites: a comprehensive review | Polymer Composites. 2021 Nov;42(11):5691-711 | 02728397, 15480569 | SCIE, 4.7, Q1 | 3 | No |
| 72. | Bacillus-mediated silver nanoparticle synthesis and its antagonistic activity against bacterial and fungal pathogens | Antibiotics. 2021 Nov 1;10(11):1334 | 20796382 | SCIE, 4.6, Q1 | 9 | No |
| 73. | Unveiling the photosensitive and magnetic properties of amorphous iron nanoparticles with its application towards decontamination of water and cancer treatment | Journal of Materials Research and Technology. 2021 Nov 1;15:99-118 | 22140697, 22387854 | SCIE, 6.6, Q1 | 10 | No |
| 74. | A brief study on optical and mechanical properties of an organic material: urea glutaric acid (2/1)-a third order nonlinear optical single crystal | Crystals. 2021 Oct 14;11(10):1239. | 20734352 | SCIE, 2.4, Q2 | 10 | No |
| 75. | Trends and developments in natural fiber composites | Applied Science and Engineering Progress. 2021 Oct 7;14(4):543-52 | 26729156, 26730421 | Scopus, Q2 | 2 | Yes |
| 76. | Pongamia pinnata shell powder filled sisal/kevlar hybrid composites: Physicomechanical and morphological characteristics | Polymer Composites. 2021 Sep;42(9):4434-47 | 02728397, 15480569 | SCIE, 4.7, Q1 | 7 | No |

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|-----|---|---|--------------------|---------------|---|-----|
| 77. | A comprehensive review on cellulose nanocrystals and cellulose nanofibers: Pretreatment, preparation, and characterization | Polymer Composites. 2021 Apr;42(4):1588-630 | 02728397, 15480569 | SCIE, 4.7, Q1 | 7 | No |
| 78. | A new study on flax-basalt-carbon fiber reinforced epoxy/bioepoxy hybrid composites | Polymer Composites. 2021 Apr;42(4):1891-900 | 02728397, 15480569 | SCIE, 4.7, Q1 | 5 | No |
| 79. | Effect of nano fillers on glass/silk fibers based reinforced polymer composites | Materials Today: Proceedings. 2021 Jan 1;46:9032-5 | 22147853 | Peer reviewed | 4 | Yes |
| 80. | Mechanical and chemical properties evaluation of sheep wool fiber–reinforced vinylester and polyester composites | Materials Performance and Characterization. 2021 Jan 1;10(1):99-109 | 21653992 | Scopus, Q2 | 5 | No |
| 81. | Experimental investigation on the mechanical and morphological behavior of Prosopis juliflora bark fibers/E-glass/carbon fabrics reinforced hybrid polymeric composites for structural applications | Polymer Composites. 2020 Dec;41(12):4983-93 | 02728397, 15480569 | SCIE, 4.7, Q1 | 8 | Yes |
| 82. | Preparation and characterization of new hybrid polymer composites from Phoenix pusilla fibers/E-glass/carbon fabrics on potential engineering applications: effect of stacking sequence | Polymer Composites. 2020 Nov;41(11):4572-82 | 02728397, 15480569 | SCIE, 4.7, Q1 | 7 | Yes |
| 83. | A novel approach for development of printed circuit board from biofiber based composites | Polymer Composites. 2020 Nov;41(11):4550-8 | 02728397, 15480569 | SCIE, 4.7, Q1 | 5 | No |

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|-----|---|--|--------------------|---------------|---|-----|
| 84. | 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. 2020 Nov;28(11):2823-36 | 15662543, 15728919 | SCIE, 5.0, Q1 | 5 | No |
| 85. | Effect of various chemical treatments of Prosopis juliflora fibers as composite reinforcement: Physicochemical, thermal, mechanical, and morphological properties | Journal of Natural Fibers. 2020 Jun 2;17(6):833-44 | 1544046X, 15440478 | SCIE, 3.1, Q2 | 6 | Yes |
| 86. | A new study on effect of various chemical treatments on Agave Americana fiber for composite reinforcement: Physico-chemical, thermal, mechanical and morphological properties | Polymer Testing. 2020 May 1;85:106437 | 01429418 | SCIE, 6.0, Q1 | 5 | Yes |
| 87. | A review on synthesis and characterization of commercially available natural fibers: Part-I | Journal of Natural Fibers. 2019 Nov 17. | 1544046X, 15440478 | SCIE, 3.1, Q2 | 5 | Yes |
| 88. | Characterization of raw and alkali treated prosopis juliflora fibers for potential polymer composite reinforcement | InIOP Conference Series: Materials Science and Engineering 2019 Nov 1 (Vol. 653, No. 1, p. 012016). IOP Publishing | - | Peer reviewed | 3 | Yes |
| 89. | Characterization of cellulosic fibre from Phoenix pusilla leaves as potential reinforcement for polymeric composites | Journal of Materials Research and Technology. 2019 May 1;8(3):2597-604 | 22140697, 22387854 | SCIE, 6.6, Q1 | 5 | Yes |
| 90. | A review on synthesis and characterization of commercially available natural fibers: Part II | Journal of Natural Fibers. 2019 Jan 2;16(1):25-36 | 1544046X, 15440478 | SCIE, 3.1, Q2 | 5 | Yes |

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|-----|---|--|--------------------|-----------------|---|-----|
| 91. | Effect of tungsten carbide on mechanical and tribological properties of jute/sisal/E-glass fabrics reinforced natural rubber/epoxy composites | Journal of Industrial Textiles. 2018 Oct;48(4):713-37 | 15280837, 15308057 | SCIE, 2.0, Q2 | 6 | No |
| 92. | Characterization and properties of natural fiber polymer composites: A comprehensive review | Journal of Cleaner Production. 2018 Jan 20;172:566-81 | 09596526, 18791786 | SCIE, 10.0, Q1 | 5 | No |
| 93. | Studies on mechanical properties of bamboo/carbon fiber reinforced epoxy hybrid composites filled with SiC particulates | International Journal of Engineering Research and General Science. 2018;6(5):43-50 | 2091-2730 | Peer Reviewed | 3 | Yes |
| 94. | Natural fibers and its composites for engineering applications: an overview | InSARC International Conference, Chennai India 2017 Dec 13 | - | Peer Reviewed | 4 | Yes |
| 95. | Polymer matrix-natural fiber composites: An overview | Cogent Engineering. 2018 Jan 1;5(1):1446667 | | Scopus, 2.5, Q2 | 5 | No |
| 96. | Stress analysis and life estimation of gas turbine blisk for different materials of a jet engine | International Journal of Science and Research. 2016;5(6):1103-1107 | 2319-7064 | Peer Reviewed | - | Yes |
| 97. | Electrical Power Generation by Footsteps using Piezo-electric Transducers | International Journal of Recent Trends in Engineering & Research. 2016. | 2455-1457 (E) | Peer Reviewed | 5 | Yes |

2. Training Courses, Teaching-Learning-Evaluation Technology Programs, Faculty development Programmes

- 1) Rapid Prototyping and Manufacturing Technologies, Department of Mechanical Engineering, NIE, Mysore. Duration: November 12, 2011.
- 2) International Conference and Exhibition on "Additive Manufacturing Technologies". Nimhans Convention Centre, Bangalore. Duration: August 27-28, 2012.
- 3) Empowering Teachers, Department of Industrial and Production Engineering, MCE Hassan. Duration: October 24-25, 2013.
- 4) Hydraulic, Pneumatic Systems in Industrial Automation, MCE-Bosch Rexroth, MCE, Hassan. Duration: November 27-29, 2014.

- 5) Analytical and Numerical Techniques in Applied Mathematics and Engineering, Department of Mathematics, MCE Hassan. Duration: July 28 to August 2, 2014.
- 6) Finite Element Analysis Using Ansys, Department of Mechanical Engineering, NIT Calicut. Duration: August 16-18, 2014.
- 7) Essentials Skills for Mechanical Engineers, Department of Mechanical Engineering, MCE Hassan. Duration: September 1-5, 2014.
- 8) Advances in Bio-Lubricants and Cutting Fluids, Department of Mechanical Engineering, MCE Hassan. Duration: December 8-12, 2014.
- 9) Materials Microstructure Characterization using Optical & Scanning Electron Microscopy, IIT Hyderabad. Duration: December 20-24, 2015.
- 10) Feel Teacher, MCE Hassan. Duration: June 6-11, 2016.
- 11) Realistic Approach to Wear Measurements and Mechanisms, Department of Mechanical Engineering, NMIT, Bangalore. Duration: September 19-21, 2016.
- 12) Virtual Laboratory, Department of E&C Engineering, MCE Hassan, Duration: February 16, 2017.
- 13) Technology Involved in Rapid Prototyping and Reverse Engineering, III Cell, MCE Hassan. Duration: February 20, 2017.
- 14) Emerging Trends in Materials and Manufacturing Technology, III Cell, MCE Hassan. Duration: February 27 to March 3, 2017.
- 15) Advanced Material Characterization Techniques, CMTI, Bengaluru. Duration: March 13-15, 2017.
- 16) Advances in Tribology and Surface Engineering, Department of Mechanical Engineering, MCE Hassan. Duration: March 20-21, 2017.
- 17) Research Methodology and Intellectual Property Rights, Department of Mechanical Engineering, MCE Hassan. Duration: March 23-25, 2017.
- 18) Advanced Materials & Manufacturing Technology, Department of Mechanical Engineering, RIT, Bangalore. Duration: December 4-16, 2017.
- 19) Challenges in Non-Conventional Energy Sources, Department of Automobile Engineering, MCE Hassan. Duration: April 9-13, 2018.
- 20) Total Quality Management, Department of Industrial and Production Engineering, MCE Hassan. Duration: May 28 – June 1, 2018.
- 21) Recent Trends in Automotive Technology, Department of Automobile Engineering, MCE Hassan. Duration: June 25-29, 2018.
- 22) Hands on Training Program for Mechanical Engineering Faculty Members on Thermo- Mechanical Simulator, Department of Metallurgical and Materials Engineering, IIT Roorkee. Duration: July 17-20, 2018.
- 23) Outcomes Based Education, MCE Hassan. Duration: August 4-5, 2018.
- 24) Being a Great Teacher, Department of Mechanical Engineering, MCE Hassan. Duration: November 3-4, 2018.
- 25) Lightweight Structures for Engineering Applications through Composites and Topology Optimization, GEC, Hassan. Duration: January 27 to February 7, 2020.
- 26) Tailor Made Nanomaterials for Applications in Sensors, LED's & Water Remediation, Department of Mechanical Engineering, ACS College of Engineering & RajaRajeswari College of Engineering, Bengaluru. Duration: June 5, 2020.
- 27) Advances in Automotive Engines, Department of Automobile Engineering & Department of Mechanical Engineering, Jain (Deemed to be University), Bengaluru. Duration: June 6, 2020

- 28) A Paradigm Shift in Management, Department of Mechanical Engineering, BITM, Ballari. Duration: June 16-20, 2020.
- 29) Advances in Machining Process, Department of Mechanical Engineering, PESITM, Shivamogga. Duration: June 17-19, 2020.
- 30) Composite Materials and its Characterizations, Department of Mechanical Engineering, AIT, Bengaluru. Duration: June 22-26, 2020.
- 31) Intellectual Property Rights and Innovations, East West Institute of Technology, Bengaluru. Duration: June 23-27, 2020.
- 32) Nuclear Energy: Myth v/s Reality, School of Mechanical Engineering, REVA University, Bengaluru. Duration: June 29, 2020.
- 33) Trends in Energy Conservation Technologies, Department of Mechanical Engineering, Vidyavardhaka College of Engineering, Mysuru. Duration: July 6-11, 2020.
- 34) Advanced Technologies in Materials & Manufacturing Engineering, Department of Mechanical Engineering, Dayananda Sagar University School of Engineering, Bengaluru. Duration: July 6-11, 2020.
- 35) Advancements in Dynamic Analysis of Machine Elements, Department of Mechanical Engineering, Vidyavardhaka College of Engineering, Mysuru. Duration: July 27-29, 2020.
- 36) Recent Advances & Trends in Mechanical Engineering & Material Science, Department of Mechanical Engineering, K. S. Institute of Technology, Bengaluru. Duration: July 27-31, 2020.
- 37) Challenges and Opportunities in Biocomposites, School of Automotive and Mechanical Engineering, Kalasalingam Academy of Research & Education, Tamilnadu. Duration: July 29, 2020.
- 38) Developments in Solar Energy Applications and Solar Tracking System, Departments of Mechanical and E & C Engineering, University BDT College of Engineering, Davanagere and Department of Mechanical Engineering, SDM Institute of Technology, Ujire. Duration: July 27 - 31, 2020.
- 39) Advanced Nano Materials, Nano Fabrication Techniques & Devices, Department of Mechanical Engineering, BMS Institute of Technology and Management, Bengaluru. Duration: August 10 – 14, 2020.
- 40) Computational Fluid Dynamics, Department of Mechanical and Manufacturing Engineering, Ramaiah University of Applied Sciences, Bengaluru. Duration: August 12 – 14, 2020.
- 41) Research & Innovation, Department of Information Science and Engineering, VVCE, Mysuru. Duration: August 17 – 21, 2020.
- 42) Basic Concepts in Turbo Machinery and its Applications, Department of Mechanical Engineering, The National Institute of Engineering, Mysuru. Duration: August 24 – 28, 2020.
- 43) 3D Printing & Design (ATAL FDP), BMS College of Engineering, Bengaluru. Duration: September 1 – 5, 2020.
- 44) Recent Advances in Tribology and Surface Engineering: Series 2 of 4 – *Tribology of Machine Components and Applied Tribology*, Department of Mechanical Engineering, Saintgits College of Engineering, Kottayam, Kerala. Duration: September 14 – 19, 2020. (AICTE sponsored STTP).
- 45) Recent Advances in Tribology and Surface Engineering: Series 3 of 4 – *Introduction to Special Topics like – Nanotribology, Biotribology, Space tribology, Biomimetics and Tribology in Industry*, Department of Mechanical Engineering, Saintgits College of Engineering, Kottayam, Kerala. Duration: October 12 – 17, 2020. (AICTE sponsored STTP).
- 46) Creating Smart and Green Society through Advance Technology of Green Energy (Phase 1), Malnad College of Engineering, Hassan, Karnataka. Duration: December 10 – 15, 2020. (AICTE sponsored STTP).
- 47) Creating Smart and Green Society through Advance Technology of Green Energy (Phase 2), Malnad College of Engineering, Hassan, Karnataka. Duration: December 17 – 22, 2020. (AICTE sponsored STTP).

- 48) Renewable Energy for Sustainable Development, Bharatratna Indira Gandhi College of Engineering, Solapur. Duration: 1 - 5 March 2022.
- 49) Make in India: Through 3D Printing and Industry 4.0 for Indian Industries – Phase II, Department of Mechanical Engineering, Kamaraj College of Engineering and Technology (Autonomous), Madurai, Tamilnadu. Duration: April 12 - 17, 2021.(AICTE Sponsored Online STTP).
- 50) Sources of Research Grants and Art of Writing a Research Paper. Department of Mechanical Engineering, R L Jalappa Institute of Technology, Doddaballapur, Bengaluru Rural District. Duration: June 3, 2021.
- 51) Novel Materials for Next-Generation Applications (ATAL FDP), M S Ramaiah Institute of Technology, Bengaluru. Duration: July 12 - 16, 2021.
- 52) Refresher course on Advanced Pedagogy (STTP). NITTTTR, Kolkata. Duration: Jan 24 - Feb 4, 2022.
- 53) Robotics and Artificial Intelligence (ATAL FDP), Lakireddy Bali Reddy College of Engineering, Mylavaram. Duration: Feb 7 – 11, 2022.
- 54) Application of Geoinformatics and Remote Sensing in Engineering & Technology, Dept. of Civil Engineering, Bharat-Ratna Indira Gandhi College of Engineering, Kegaon, Solapur, Maharashtra, Duration: 19 - 23 September 2022.
- 55) Advanced Tools and Techniques for Best Research, Department of Information Science & Engineering and IPR-Cell, RV Institute of Technology and Management, Bengaluru. Duration: 26 - 30 September 2022.
- 56) Recent Trends in Composites, Department of Mechanical Engineering, Alliance College of Engineering and Design (ACED), Alliance University, Bengaluru. Duration: 2-6 Jan 2023.
- 57) Opportunities and Challenges in Entrepreneurship, JSSATE, Science & Technology Entrepreneurship Park, Bengaluru. (NSTEDB), Dept. of Science & Technology, GOI. Duration: 3rd – 19th January 2024.
- 58) Advances in Materials Technology for Next Generation Manufacturing, Ballari Institute of Technology & Management, Ballari. Duration: 1st to 5th February 2024.
- 59) Sustainable & Eco-friendly products, Digital & E-commerce Businesses, JSSATE, Science & Technology Entrepreneurship Park, Bengaluru. (NSTEDB), Dept. of Science & Technology, GOI. Duration: 7th – 24th February 2024.
- 60) Brainstorming session on Intellectual Property Rights, KSCST, IISc Campus, Bengaluru in association with Vemana-KSCST IP Cell, VIT, Bengaluru. Duration: 29th February 2024.
- 61) IoT, Embedded Systems & AI, JSSATE, Science & Technology Entrepreneurship Park, Bengaluru. (NSTEDB), Dept. of Science & Technology, GOI. Duration: 4th – 29th March 2024.
- 62) GenAI, Ten Days FDP, Department of Information Science & Engineering, Vidyavardhaka College of Engineering, Mysuru. Duration: August 26th - September 5th, 2024.
- 63) Advanced Materials for Defence and Aerospace Applications, Ballari Institute of Technology and Management, Ballari. Duration: Jan 27 – Feb 1, 2025.
- 64) Microwave Processing and 3D Printing of Functional Materials – From Fundamentals to Future Technologies (ATAL FDP), K.L.S. Gogte Institute Of Technology. Duration: Feb 3 - 8, 2025.
- 65) Next-Gen Data Science: Deep Learning, NLP and Responsible AI, Department of CSE, CMR Institute of Technology, Bengaluru. Duration: June 16 - 20, 2025.
- 66) Current Trends in Metal Additive Manufacturing, Malaviya Mission Teaching Training Centre, IIT(ISM), Dhanbad, Jharkhand. Duration: July 7 - 18, 2025.
- 67) Design Thinking and Innovation (ATAL FDP), Sant Gajanan Maharaj College Of Engineering, Maharashtra, India. Duration: Nov 17 - 22, 2025.

68) Advanced Manufacturing and Materials Systems: Processing, Characterization and Testing (AMMS'26), Ramco Institute of Technology, Tamil nadu. Duration: Jan 5 - 9, 2026.

3. Papers presented in Conferences, Seminars, Workshops, Symposia

| Sl. No. | Title | Title of Conference/Seminar etc. | Dates of the Event | Organized by | Whether International/ National/ State/ Regional/ University/ College Level |
|---------|---|--|----------------------------|--|---|
| 1 | Mechanical, Water Absorption, and Morphological Studies on Jute-Carbon Hybrid Composites Reinforced with Tamarind Seed Filler | International Conference on Developments in Sustainable & Innovative Design for Manufacturing, Mobility & Energy Systems – 2026, | February 27th & 28th 2026 | Dayananda Sagar College of Engineering in collaboration with King Mongkut's University of Technology North Bangkok, Thailand | International |
| 2 | Experimental Investigation of SiC/ Al ₂ O ₃ Reinforced Al 6082 Hybrid Metal Matrix Composites | International Conference on Trends in Mechanical Engineering Sciences (ICTMES-2020), | August 6-7th 2020 | Malnad College of Engineering, Hassan | International |
| 3 | Effect of Nano Fillers on Glass/Silk Fibers Based Reinforced Polymer Composites | International Conference on Advanced Trends in Mechanical & Aerospace Engineering (ATMA-2019) | February 7-9th 2019 | Dayananda Sagar University, Bengaluru, Karnataka | International |
| 4 | Characterization of raw and alkali treated prosopis juliflora fibers for potential polymer composite reinforcement | International Conference on Advances in Material and Manufacturing Engineering – 2019 (ICAMME-2019) | March 15-17th 2019 | KIIT University, Bhubaneswar, Odisha | International |
| 5 | Natural Fibers and Its Composites for Engineering Applications: An Overview | SARC International Conference on Mechanical and Production Engineering (ICMAPE – CHENNAI), | December 3rd, 2017 | Chennai, India | International |
| 6 | Study on Tensile Behaviour of Century/Carbon Fiber Reinforced Polyester Based Composites | 14th State Level ISTE Student's Annual Convention and 5th National Conference on Emerging Trends in Engineering, Research and Management (NCETERM - 2017), | 8th and 9th September 2017 | GM Institute of Technology, Davangere, Karnataka, India | National |

Note: Do not leave any blank rows and columns. Add/Delete rows/columns appropriately.