




**Dr. TEJAPPANAVARA
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DESIGNATION
Assistant Professor

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Professional Experiences:

Teaching: 4

Industry: Nil

Research: 4

Courses Taught:

- Manufacturing Processes,
- Non Traditional Machining,
- Metrology and Measurements
- Mechanical Engineering Sciences,
- Computer Aided Engineering Drawing

ABOUT ME

My primary area of interest are in Processing of polymer matrix composites, and natural fiber reinforced composites. I completed my PhD from NIT, Tiruchirapalli. My PhD topic is processing and characterization of camphor soot embedded natural fiber reinforced Nylon composites. I have worked on manufacturing of thermoplastic composites and thermoset composites. I have hands on experience on compression moulding process, twin-screw extruder, injection moulding machine. I have handled non-traditional machining, Mechanical engineering sciences, metrology and measurements, Manufacturing Process for UG students.

RESEARCH INTERESTS:

Processing and characterization of polymer composites.

Additive Manufacturing

Biodegradable Plastics

EDUCATION

Ph.D - Processing and Characterization of polymer matrix composites
University Name: National Institute of Technology Tiruchirappalli
Year of Graduation: 2020

M.E/MTech. - Production Engineering and System Technology
Institute/University Name: National Institute of Engineering
Year of Graduation: 2013

B.E.- Mechanical Engineering
Institute/University Name: JNNCE Shimoga
Year of Graduation: 2010

PUBLICATIONS

1. Raghavendra, T., CA, Niranjana, Shilpa, M., K, Panneerselvam. and Singh, A., 2023. Effect of hybridization on camphor soot embedded Palmyra fiber reinforced nylon nano composites. *Functional Composites and Structures (Impact Factor - 2.8)*. [10.1088/2631-6331/ad0564](https://doi.org/10.1088/2631-6331/ad0564)
2. Niranjana, C.A., Raghavendra, T., Rao, M.P., Siddaraju, C., Gupta, M., Jain, V.K.S. and Aishwarya, R., 2023. Magnesium alloys as extremely promising alternatives for temporary orthopedic implants—A review. *Journal of Magnesium and Alloys (Impact Factor -17.6)*. [10.1016/j.jma.2023.08.002](https://doi.org/10.1016/j.jma.2023.08.002)
3. Venkatesh, R., Niranjana, C.A., Srinivas, S. and Raghavendra, T., 2023. Workability Studies on Al6061 Alloy and Al6061 Metal Matrix Composites Reinforced with Silicon Carbide Particles Under Cold Backward Extrusion. *Journal of The Institution of Engineers (India): Series D*, 104(1), pp.373-389. [10.1007/s40033-022-00400-7](https://doi.org/10.1007/s40033-022-00400-7)
4. Raghavendra, T. and Panneerselvam, K., 2022. Abrasive Wear Behaviour of Camphor Soot Filled Coir/Palmyra Fibre Reinforced Nylon Composites. In *Recent Advances in Mechanical Engineering: Select Proceedings of ERCAM 2021* (pp. 97-108). Singapore: Springer Nature Singapore. https://doi.org/10.1007/978-981-19-1388-4_10
5. Roy, A., Sachin, B., Raghavendra, T., Rao, C.M., Naik, G.M., Soni, H., Mashinini, P.M. and Narendranath, S., 2022. Optimizing machining responses of homologous TiNiCu shape memory alloys using hybrid ANN-GA approach. *Materials Today: Proceedings*. [10.1016/j.matpr.2022.04.890](https://doi.org/10.1016/j.matpr.2022.04.890)
6. Yadhav, B.L., Chandan, C., Raghavendra, T., Suresha, B. and Raju, H.G., 2022. Role of alumina filler on thermal properties of carbon-epoxy nanocomposites. *Materials Today: Proceedings*, 59, pp.166-170. [10.1016/j.matpr.2021.10.387](https://doi.org/10.1016/j.matpr.2021.10.387)
7. Raghavendra, T. and Kavan, P., 2018. A novel study on thermal stability of camphor soot reinforced coir fibers. *Fibers and Polymers*, 19(7), pp.1567-1575. *(Impact Factor - 2.347)*
8. Raghavendra, T. and Panneerselvam, K., 2020. A Novel Study On Surface Modification Of Palmyra Fibers For Enhancing Mechanical And Thermal Properties. *Surface Review and Letters*, 27(02), p.1950104. *Surface*. *(Impact Factor - 1.24)* [10.1142/S0218625X1950104X](https://doi.org/10.1142/S0218625X1950104X)
9. Raghavendra, T. and Panneerselvam, K., 2020. Mechanical and Thermal Characterization of Camphor Soot Embedded Coir Fiber Reinforced Nylon Composites. *Fibers and Polymers*, 21(11), pp.2569-2578. *.(Impact Factor - 2.347)* [10.1007/s12221-020-9631-3](https://doi.org/10.1007/s12221-020-9631-3)

CONFERENCES ATTENDED:

1. Raghavendra and Y S Varadarajan. A Study on wear behaviour of SiC filler filled Glass fiber Reinforced Epoxy Composites Advanced Materials Manufacturing, Management and Thermal Sciences (AMMMT 2013) held at SIT Tumkur.
2. Panneerselvam K, T. Raghavendra, Jafrey Daniel D and Chandresh D. Investigation on mechanical and metallurgical characterization of sisal and banana fibers reinforced with polypropylene. AIMTDR (2016), College of Engineering Pune.
3. Panneerselvam K, T. Raghavendra, Jafrey Daniel D and TNS Ramakrishna. Investigation on mechanical characterization and surface morphology of kenaf and jute fibers reinforced with HDPE. AIMTDR (2016), College of Engineering Pune.
4. Panneerselvam K, T. Raghavendra, Jafrey Daniel D and K. Lokesh. Optimization of tribological properties of aramid and palm fibers reinforced with nylon hybrid composites. AIMTDR (2016), College of Engineering Pune.
5. Raghavendra and Panneerselvam K, Tensile and thermal behaviour of hennotanic acid coated coir fibers, CDAMIES, 2018, NIT, Tiruchirapalli.
6. Raghavendra and Panneerselvam K Characterization of henna coated palm fibers for enhanced thermal stability NCSCSTASE, NAL CSIR 2018, Bengaluru.
7. Niranjana C. A, Vikram Kumar S. Jain, M. Sadhasivam, T. Raghavendra, Srikanth Salyan, Kishore K. S. Bhardwaj. Investigation on mechanical properties of banana fiber reinforced polypropylene composites. RDMPMC-2020, Department of Metallurgical and Materials Engineering, National Institute of Technology Jamshedpur.

OTHER INFORMATION:

(Patents Filed/ Membership/Administration/Consultancy/Evaluator/Research Guidance and funding/Awards/Key Roles/Invited Talks Delivered, etc.)

Recognized Guide for VTU in Mechanical Engineering Sciences

Recognized with the Best Paper Award at CDAMIES 2018, hosted by the National Institute of Technology, Trichy.

The project titled "Design and Fabrication of Biogas Scrubbing Unit for NIE Boys Hostel" has selected For the Karnataka State Council for Science and Technology in 2022, at the state level.