



Dr. MADHUSUDAN BM

Assistant Professor

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Professional Experiences:

Teaching: 10years

Industry:

Research: 1.5 years

Courses Taught: Material Science, Metrology and measurements, advanced material processing, Control Engineering, Automobile Engineering, CAED, CAMD

ABOUT ME

I am an enthusiast and passionate about teaching with 10.5 years of teaching experience. I have completed my Ph.D. degree in Mechanical Engineering Sciences from Visvesvaraya Technological University (VTU), Belagavi, with a thesis titled "Synthesis and Development of Aluminium-Based Metal Matrix Nano Composites." My research interests include synthesis of nanocomposites, nanomaterials characterization, surface engineering, Prior to NIE Institute of Technology, Mysuru, Karnataka, India, I worked as an Assistant Professor in the Department of Mechanical Engineering at GSSS Institute of Engineering and Technology for Women, Mysore, for a period of 6 years.

RESEARCH INTERESTS:

Nanomaterials, composites, surface coating, nano casting

EDUCATION

- Ph.D–Nano material
VTU Belagavi
Year of Graduation : 2019
- M.E/M.Tech. –Computer integrated manufacturing
VTU Belagavi
Year of Graduation : 2012
- B.E., - Automobile Engineering
VTU Belagavi
Year of Graduation : 2010

PUBLICATIONS

1. Madhusudan B.M., Abishek P., Shanthraju., Amith K., “Study of Effect of Hot Forging on Microstructure and Mechanical Properties of Al-SiC+3 Wt.% AL₂O₃ Hybrid Composites”, Journal of Mines, Metals and Fuels, 71(1): 73-78; 2023. DOI: 10.18311/jmmf/2023/33359
2. Madhusudan B.M., Raju H.P., Ghanaraja S., “Fabrication and Study of Mechanical Properties of Nano SiC Reinforced Aluminium Based Metal Matrix Nano Composites”, Journal of The Institution of Engineers (India): Series D 102 (1), 167-172, 2021.
3. Madhusudan B.M., Raju H.P., “Synthesis and Development of Size Hybrid Nano SiC-Al₇₀₇₅ composites by Advanced stir casting”, “Applied Nano Science-SCI-Springer journal”. Materials Today: Proceedings 43, 3804-3809, 2021.
4. Madhusudan B.M., Raju H.P., Ghanaraja S., “Microstructural Study of Cast Nano SiC Reinforced Aluminium Based Metal Matrix nano Composites” presented in International Conference on “Advanced Materials and Processes for Defence Applications”, organized by Defense Metallurgical Research Laboratory (DMRL).
5. Raju H P, Madhusudan B M, Ghanaraja S., “Study on Effect of Different Ball Milling Duration on SiC Particles”, International Journal for Research in Engineering Application & Management, Volume 4, Issue 09, Pages 20-28, Dec 2018.
6. Madhusudan B.M., Raju H.P., Ghanaraja S., “Micro Structural Characterization and Analysis of Ball Milled Silicon Carbide”, AIP Conference proceedings, Vol. 1943, pp 120 - 122. E-ISSN: 2162-8424, 2018.
7. S.Ghanaraja, B.M.Madhusudan, K.L. VinuthKumar, K.S.Ravikumar. “Mechanical properties of Al-ZrO₃ reinforced cast and hot extruded Al based metal matrix composites” Materials Today Proceedings, Volume 4, Issue 2, Part A, Pages 2771-2776, 2017.
8. S.Ghanaraja, B.M.Madhusudan, D.J. DileepKumar, K.S.Ravikumar, “Mechanical Properties of Hot Extruded Al(mg)-MnO₂ Composites” Applied Mechanics and Materials, Vols. 813-814, pp. 84-89, 2016.
9. Ghanaraja S., Ramanuja C. M., Ravikumar K. S., Madhusudan B. M. “Study on Mechanical Properties of Hot Extruded Al (Mg)-TiO₂ Composites”, American Journal of Materials Science, p-ISSN: 2162-9382, 2016.
10. S.Ghanaraja, B.M. Madhusudan, Rajashekar H, K.S.Ravikumar, “Synthesis and study of Mechanical Properties of Cast Al (Mg)-MnO₂ Composites”, Materials Today Proceedings, Volume 5, Issue 1, Part 3, Pages 2765-2772, 2018.