Faculty Profile

Name: **Dr. AVINASH MALLADI**

Designation: **Associate Professor**

Teaching Areas: Mechatronics System Design, CAD/CAM, Additive Manufacturing, 3D Printing, Design & Manufacturing Cloud Manufacturing, Mechanical Engineering

Research Interests: Metal Additive Manufacturing, 3D Printing, Composite Materials, Bio Manufacturing

Education:

1. **Ph.D.**, **Mechanical Engineering (Area: Metal Additive Manufacturing),** VEL's University, Chennai, 2023.
2. **M.E (CAD/CAM)**, Osmania University in Industrial Collaboration with Central Institute of Tool Design (CITD), Hyderabad, 2011.
3. **B.E (Mechanical -Production Engineering)**, Osmania University, Hyderabad, 2009.

Professional Certifications:

- Certified in **CATIA V5 Part Design Specialist** from **Dassault Systeme's, France**
- Certified in **Solidworks Professional** from **Dassault Systeme's, France**
- Certified in **Additive Manufacturing in Solid Works** from **Dassault Systeme's, France**

Research / Selected Publications:

4. Avinash Malladi. **"Mechanical Interlocking Approaches to the Prediction of Mechanical and Tribological Behavior of Natural Fiber-Reinforced Polymer Hybrid Nanocomposites or Automotive Applications",** Hindawi, Advances in Polymer Technology, 2023.
5. Avinash Malladi. **"Assessment of solar thermal monitoring of heat pump by using zeolite, silica gel, and alumina nanofluid",** Springer Nature, Clean Technologies, and Environmental Policy, 2023.
6. Avinash Malladi. **"Synthesis, Thermal Adsorption, and Energy Storage Calibration of Polysulfone Nanocomposite Developed with GNP/ CNT Nanofillers",** Hindawi, Adsorption Science & Technology in collaboration with SAGE Publishing, 2023.
7. Avinash Malladi. **"Synthesis and Experimental Thermal Adsorption Characteristics of Epoxy Hybrid Composite for Energy Storage Applications",** Hindawi, Adsorption Science & Technology in collaboration with SAGE Publishing, 2023
8. Avinash Malladi. **"Taguchi based parameter optimization for cutting force reduction in SAE 1045 steel machining with nanofluid",** Materials Today Proceeding, 2022.

Books Published: 2