Faculty Profile

Name: **Dr. VIVEKANANDA KUKKALA**

Designation: **Assistant Professor**

Teaching Areas: Workshop Technology, Manufacturing Processes, Production Techniques, Advanced Machining Processes, Advances in Materials Science, Engineering Metallurgy, Machining Science, Structure and Properties of Materials, Machine Tool Design, Micro-Machining and Precision Engineering.

Research Interests: Ultrasonic Vibration-assisted Manufacturing Processes, Biomedical applications of Ultrasonic Vibration-assisted Techniques, Wire Cut EDM Process, Extrusion Processes, LASER Cutting/Welding Processes, Additive Manufacturing, Finite Element Analysis (FEA), Optimization Techniques.

Education:

- Ph.D. in Mechanical Engineering, National Institute of Technology Rourkela, 2019.
- M.Tech (Production Technology) in Mechanical Engineering, National Institute of Technology Rourkela, 2012.
- B.Tech in Mechanical Engineering, Jawaharlal Nehru Technological University, Hyderabad, 2010.

Research Publication:

1. **K. Vivekananda**, G.N. Arka, S.K. Sahoo, "*Finite element analysis and process parameters optimization of ultrasonic vibration assisted turning (UVT)*", Procedia Materials science, vol. 6, pp. 1906-1914, 2014.
2. **K. Vivekananda**, G.N. Arka, S.K. Sahoo, "*Design and Analysis of Ultrasonic Vibratory Tool (UVT) using FEM, and Experimental study on Ultrasonic Vibration-assisted Turning (UAT)*", Procedia Engineering, vol. 97, pp. 1178-1186, 2014.
3. Anshuman Kumar, **K. Vivekananda** and Kumar Abhishek, "*Experimental Investigation and Optimization of Process Parameter for Inconel 718 Using Wire Electrical Discharge Machining (WEDM*)", Vol. 18, No. 03, pp. 339-362 (2019), Journal of Advanced Manufacturing Systems, World Scientific.