

## FACULTY PROFILE



**Name:** VIVEKANANDA KUKKALA

**Designation:** Assistant Professor

**Teaching areas:** Manufacturing Processes, Production Techniques,  
Machining Process, Advances in Materials Sciences

**Research interests:** Ultrasonic Vibration Assisted Manufacturing Process, Extrusion Process,  
LASER Cutting/Welding process, Wire Cut EDM process, Optimization  
Techniques

### Education:

- (Ph.D.), Mechanical Engineering, NIT, Rourkela
- M.Tech (Production Technology) in Mechanical Engineering, NIT, Rourkela, 2012.
- B.Tech in Mechanical Engineering, JNTU, Hyderabad, 2010.

### Total Professional Experience:

1. 2016-Till date: Assistant Professor, FST, IFHE, University, Hyderabad.

### Research/Selected Publications

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. V. Kukkala, S.K. Saho, "Experimental Study In Ultrasonic Vibration-assisted Turning (UVT) and comparison with conventional turning", *International Journal of Advanced Materials Manufacturing & Characterization*, vol. 3, Issue 1, pp. 451-454, 2013.
4. A. Kumar, H. Mishra, K. Vivekananda, K.P. Maity, "Multi-objective optimization of wire electrical discharge machining process parameters on inconal 718", *Materials today*, vol. 4, pp. 2137-2146, 2017.
5. A. Kumar, H. Mishra, K. Vivekananda, K.P. Maity, "NSGA-II approach for multi-objective optimization of wire electrical discharge machining process parameters on inconal 718", *Materials today*, vol. 4, pp. 2194-2202, 2017.