

# Faculty Profile

**Name:** MANTRA PRASAD SATPATHY

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**Designation:** Assistant Professor

**Teaching Areas:** Advanced Manufacturing Process, Non-Traditional Machining, Optimization Engineering, Strength of Material, and Mechanics

**Area of research:** Hybrid Welding Technology, Advanced Machining Process, Metaheuristic Optimization Techniques, Numerical Modeling and Simulation Process.



## Education:

- Ph.D in Mechanical Engineering, National Institute of Technology, Rourkela.
- M.Tech in Manufacturing Processes and Systems, KIIT University, Bhubaneswar.
- B.Tech in Mechanical Engineering, BPUT, Odisha.

## Professional Experience:

- July 2016 till today: Assistant Professor, FST, IFHE (Deemed University), Hyderabad.
- July 2010 - September 2012: Assistant professor at Maharaja Institute of Technology, Bhubaneswar, Odisha.

## Research Publications:

1. **M P Satpathy**, S K Sahoo, “An experimental investigation on joining of aluminum with steel using ultrasonic metal welding”, *International Journal of Mechatronics and Manufacturing Systems*, 2016, Inderscience Publishers, Switzerland. (in forthcoming articles and available online) (Scopus indexed)
2. **M P Satpathy**, S K Sahoo, S Datta, “Acoustic horn design and effects of process parameters on properties of dissimilar ultrasonic welding aluminium to brass”, *Materials and Manufacturing Processes*, 2015, vol. 31(3), pp. 283-290, Taylor & Francis, UK.
3. **M P Satpathy**, B R Moharana, S Dewangan, S K Sahoo, “Modelling and optimisation of ultrasonic metal welding on dissimilar sheets using fuzzy based genetic algorithm approach”, *Engineering Science and Technology, an International Journal*, 2015, vol. 18, pp. 634-647, Elsevier Science. (Scopus indexed)
4. **M P Satpathy**, S K Sahoo, “Ultrasonic spot welding of dissimilar materials: characterization of welded joints and parametric optimization”, *IOP Conf. Series: Materials Science and Engineering*, 2016, vol. 115, pp. 1-9, IOP Publication, UK. (Scopus indexed)
5. **M P Satpathy**, S K Sahoo, “Parametric analysis on plastic deformation of materials during ultrasonic spot welding with different anvil geometries”, *International Journal of Manufacturing Technology and Management*, 2015, Inderscience Publishers, Switzerland. (in forthcoming articles and available online) (Scopus indexed)