

Faculty Profile

Name: **Dr. Pravat Ranjan Pati**

Designation: Assistant Professor

Teaching Areas: Thermodynamics, Fluid mechanics and Hydraulic Machines, Heat Transfer, Refrigeration and Air-conditioning

Area of research: Polymer Composites, Metal matrix and ceramics matrix composites, Plasma Spray Coatings, Tribology, Surface Engineering

Education: Ph.D. in Mechanical Engineering, NIT, Rourkela, 2015
M.Tech in Mechanical (Thermal) Engineering, SOA University, ITER, Bhubaneswar, 2011
B.Tech in Mechanical Engineering, BijuPatnaik University of Technology, Odisha, 2008



Professional Experience (5 Years):

- 2015-Till date: Assistant Professor, FST, IFHE (Deemed to be University), Hyderabad.

Research/Selected Publications:

- P. R. Pati**, M. P. Satpathy, B. K. Nanda, B. C. Routara and A. Pattanaik "Dissimilar joining of Al/SS sheets with interlayers by ultrasonic spot Welding: Microstructure and mechanical properties", **Materials Today: Proceedings**, 26 (2), 1757-1760, 2020.
- P. R. Pati**, "Prediction and wear performance of red brick dust filled glass-epoxy composites using neural networks", **International Journal of Plastics Technology**, 23 (2): 253-260, 2019.
- P. R. Pati** and M. P. Satpathy, "Investigation on Red Brick Dust filled Epoxy composites Using Ant Lion Optimization Approach", **Polymer Composites**, 40 (10), 3877-3885, 2019, 2019.
- P. R. Pati**, M. P. Satpathy and A. Satapathy, "Erosion Wear Response of Linz-Donawitz Slag Coatings: Parametric Appraisal and Prediction using Imperialist Competitive Algorithm and Neural Computation", **SAE International Journal of Materials and Manufacturing**, 12 (2), 95-107, 2019.
- P. R. Pati**, M. P. Satpathy and A. Satapathy, "Experimental investigation on Linz-Donawitz slag filled polypropylene composites using Teaching-Learning based Optimization approach", **Polymer Composites**, 39 (11), 3944-3951, 2018.