

## Faculty Profile

Name: **Dr. Barla Madhavi**  
Designation: Assistant Professor  
Teaching Areas: Design, Modelling and Manufacturing  
Research Interests: Design, Modelling and Simulation in Friction Stir  
Welding Education: Ph.D. (Welding), Bits-Pilani,  
M.E (CAD/CAM) Gitam, Vizag -2006 Hyderabad  
B.Tech (Mechanical Engineering) -V.R.Siddhartha  
Engg College, Vijayawada-2001



### Research / Selected Publications:

#### List of Journal Publications

1. Madhavi, B., Jeevan. J., and Karthik Teja M., "Heat and Material Flow Effects on the Microstructures and Hardness in Friction-Stir Welded Joints." *Procedia Engineering*, vol. 86,2016, pp.209-214. (DOI: 10.1016/j.proeng.2014.11.030; Citations=1)
2. Madhavi B., Jeevan J., "Influence of Strain Hardening Behaviour in Friction Stir Welded Joints of Aluminium-alloy Plates", *Materials Today: Proceedings*, vol. 5, Issue 2P1 (2018), pp. 3851-3860.

#### List of Conference Publications

1. Madhavi B., Jeevan J, and karthik.Teja M, "Optimization Study of Friction Stir Welding Process Parameters and Nugget Properties of Aluminium-alloy", *International Conference on Structural Integrity (ICONS-2014)*, IGCAR, Kalpakkam, India, February 4-7, 2014, pp. 129. (Citations=2)
2. Madhavi B., Anvesh Krishna S. and Jeevan J., "Finite Element Modelling of Friction Stir Welding Process to Study the Thermal Impact and Evolution of Stresses in Aluminium-alloy Plates", *AIMTDR-2016*, College of Engineering , Pune, December 16-18, 2016, pp. 243.
3. Madhavi B., and Jeevan J., "Microstructure in Aluminium-alloy Plates in FSW", *ICMPC-2017*, College of Engineering , Hyd, April, 2017.
4. Robin Raj Balraj, Madhavi Barla and Govardhan Tingarikar, "A Review on Intelligent Fault Detection in Rolling Element Bearings", *E3S Web of Conferences* ,184, (August, 2020).ISSN:00002013ISSN: 2267-1242.

#### Text Books:

1. Vedanth Bhatnagar, B.Madhavi, M.L.Pavan Kishore "Dynamic role of Robots in various precarious conditions" 2021 by Lambert publications.

#### Patents:

1. Handy device for face recognition –Patent Number 353912-001, Controller general of patents , Design and trade marks India,2021