

## Faculty Profile



**Name:** Dr. A. MANMADHA CHARY

**Designation:** Assistant Professor

**Teaching Areas:** Production Technology, Machine Tools & Manufacturing Processes, Non-Conventional Machining Processes and CAD/CAM/CAE.

**Research Interests:** Additive Manufacturing, 3D Printing, Computer Aided Design, Computer Aided Engineering, Bio-Manufacturing, Optimization Techniques.

### Education:

- ❖ Ph.D in Mechanical Engineering, National Institute of Technology, Warangal, 2017.
- ❖ M.E in Production Engineering, Osmania University, Hyderabad, 2010.
- ❖ B.Tech in Mechanical Engineering, JNTU, Hyderabad, 2008.

### Professional Experience:

1. July 2016 to till today: Assistant Professor, ITS, IFHE (Deemed University), Hyderabad.
2. November 2010 - December 2011: Assistant professor at Royal Institute of Technology & Science, Hyderabad.

### Research / Selected Publications:

1. **Manmadhachary. A**, Ravi Kumar. Y, Krishnanand. L, “Improve the accuracy, surface smoothing and material adaption in STL file for RP medical models”, Journal of Manufacturing Processes, vol. 21, pp 46–55, 2016. (**SCI Journal**)
2. **Manmadhachary A**, Ravi Kumar Y, Krishnanand L, “Effect of CT acquisition parameters of spiral CT on image quality and radiation dose”, Measurement, vol. 103, pp 18–26, 2017. (**SCI Journal**)
3. **A. Manmadhachary**, Y. Ravi Kumar, L. Krishnanand, “Finding of Correction Factor & Dimensional Error in Bio-AM Model by FDM Technique”, Journal of The Institution of Engineers (India): Series C, Published. (**Scopus indexed**)
4. **Manmadhachary A**, Y. Ravi Kumar, M. Santosh Kumar, P. Rama Krishna, “Design and Manufacturing of spiral intake manifold to improve the volumetric efficiency of injection diesel engine by AM process”, Materials Today: Proceedings, vol. 4, pp.1084-1090, 2017. (**Scopus indexed**)
5. **Manmadhachary A**, Santosh Kumar Malyala, Ravi Kumar.Y, “ Manufacturing of Patient specific AM medical models for Complex Surgeries”, Materials Today: Proceedings, vol. 4, pp. 1134-1139, 2017. (**Scopus indexed**)
6. **A Manmadhachary**, Malyala Santosh Kumar, Y Ravi Kumar, M Haranadha Reddy, Alwala Adityamohan, Design & Manufacturing of Implant for reconstructive surgery: A Case Study, KnE Engineering, vol. 2, pp. 143-149, 2017.