

Faculty Profile



Name: Dr. A. MANMADHA CHARY

Designation: Associate Professor

Teaching Areas: Digital Fabrication, Production Technology, CAD/CAM Machine Tools, Additive Manufacturing.

Research Interests: Additive Manufacturing, Computer Aided Design, Computer Aided Engineering, Bio-Manufacturing and Optimization Techniques.

Education:

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

US Patent Granted:

- **Manmadhachary A**, Aditya Mohan A, Giridhar Kumar V and Ravi Kumar Y (2022) Implantable Device for Temporomandibular Joint and Method of Production Thereof, US Patent No. US 11,351,033 B2, filed July 6, 2018, and issued June 7, 2022.

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, 21 (2016) 46–55.
2. **Manmadhachary A**, Ravi Kumar Y, Krishnanand L, “Effect of CT acquisition parameters of spiral CT on image quality and radiation dose”, Measurement, 103 (2017) 18–26.
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, 3 (2018) 293–300.
4. **A. Manmadhachary**, Chanakya Chervith P.S.M, “A Method to Minimize the Energy Consumption of an Industrial Robot”, International Journal of Energy Technology and Policy (IJETP), 15 (2019) 224 – 235.
5. **Manmadhachary A**, “CT imaging parameters for precision models using additive manufacturing”, Multiscale and Multidisciplinary Modeling, Experiments and Design, 2 (2019) 209–220.
6. **Manmadhachary A**, Adityamohan Alwala, Haranadha Reddy M “Manufacturing of custom-made implants for orbital fractures using 3D printing”, Bioprinting 21 (2021) e00118.
7. **Manmadhachary A**, L. Siva Rama Krishana, Kuldeep K Saxena, Quantification of the accuracy of additive manufactured (3D printed) medical models”, International Journal on Interactive Design and Manufacturing (IJIDeM), 2022 (Published).

Book Chapter:

1. **Manmadhachary A**, Roopa Tulasi, and Priyanka Chatteraj (2022) “3D-Printed membrane for water treatment”, 3D Printing Technology for Water Treatment Applications, Elsevier, ISBN No: 9780323998611.