

## Faculty Profile



**Name:** Dr. T. DIVYA

**Designation:** Assistant Professor

**Teaching Areas:** Calculus, Differential Equations, Complex Analysis, Probability and Statistics, Linear Algebra, Integral Transformation

**Research Interests:** Computational Fluid Dynamics, Corrosion, Finite volume method, Bone Tissue Engineering, 3D Printing

### Education:

- Ph.D. Mathematics, National Institute of Technology, Warangal, 2014
- M.Sc. Mathematics with Computer Science, BBCIT Osmania University, Hyderabad, 2009
- B.Sc. Princeton Degree College, Osmania University, 2006

### Research / Selected Publications:

1. H.P.Rani, **T. Divya**, R. R.Sahaya, Vivekanand Kain and D.K. Barua, “*Unsteady turbulent flow in a 3D 90 degree bend under wall thinning degradation environment*”, Nuclear Engineering and Design, 267, 164-171(2014).
2. H.P.Rani, **T. Divya**, R. R.Sahaya, Vivekanand Kain and D.K. Barua, “*Numerical simulation of Turbulent flow in carbon steel pipes leading to flow accelerated corrosion*”, Arabian Journal of Science and Engineering, 39, 6435-6451(2014).
3. H.P.Rani, **T. Divya**, R. R.Sahaya, Vivekanand Kain and D.K. Barua, “*CFD study of flow accelerated corrosion in 3D elbows, Annals of Nuclear energy*”, 69, 344- 351(2014), I.F-1.020.
4. H.P.Rani, **T. Divya**, R. R.Sahaya, Vivekanand Kain and D.K. Barua, “*Numerical investigation of energy and Reynolds stress distribution for a turbulent flow in anorifice*”, Engineering Failure Analysis, Vol. 34, pp. 451-463(2013).

### Funded Projects

1. Sanctioned IFHE SEED project entitled “Development of 3D printable biodegradable polymer based Bio composites for Bone Tissue Engineering (BTE) applications” for the period Oct 2021 to April 2023.
2. Sanctioned Jain University Minor Project “Scan-Print-Implant: A Technology to Print tissues” for the period Nov 2022 to Nov 2023.