



## FACULTY PROFILE

**Name:** Dr. ANJANNA MATTA

**Designation:** Assistant Professor

**Teaching Areas:** Differential Equations, Numerical Analysis, Probability & Statistics, Linear Algebra

**Research Interests:** Computational Fluid Dynamics, Convection in porous media, Hydrodynamic stability.

**Education:**

- Ph.D., Indian Institute of Technology, Hyderabad, 2016
- M.Tech., Indian Institute of Technology, Madras, 2010
- M.Sc., National Institute of Technology, Warangal, 2004

**Professional Experience (13 years)**

1. 2016 - till date: Assistant Professor, FST, The ICFAI Foundation for Higher Education, Hyderabad.
2. 2012 - 2016: Teaching Assistant, Indian Institute of Technology, Hyderabad.
3. 2010 - 2012: Assistant Professor, Jyothismathi Institute of technological sciences, Karimnagar, Telangana.
4. 2004 - 2008: Assistant Professor, Jayamukhi Institute of Technological Sciences, Narasmpet, Warangal, Telangana.

**Research / Selected Publications:**

1. **Anjanna Matta** and G. Nagaraju, Order of chemical reaction and convective boundary condition effects on micropolar fluid flow over a stretching sheet, *AIP Advances*, (SCI Journal) 8 (2018) 1-10.
  2. **Anjanna Matta** and Antony A. Hill, Double-diffusive convection in an inclined porous layer with a concentration based internal heat source, *Continuum Mechanics and Thermodynamics*, (Springer Journal SCI) 30(1) (2018) 165–173.
  3. G. Nagaraju, **Anjanna Matta** and K. Kaladhar, The effects of Soret and Dufour, chemical reaction, Hall and ion currents on magnetized micropolar flow through co-rotating cylinders, *AIP Advances* (SCI Journal), 7 (2017) 1-16.
  4. **Anjanna Matta**, P. A. L. Narayana and Antony A. Hill, Double-diffusive Hadley-Prats flow in a horizontal porous layer with a concentration based internal heat source, *Journal of mathematical analysis and applications* (Elsevier Journal SCI) 452, (2017) pp. 1005-1018.
  5. **Anjanna Matta**, P. A. L. Narayana and Antony A. Hill, Double-diffusive Hadley-Prats flow in a porous medium subject to gravitational variation, *International Journal of Thermal Sciences* (Elsevier Journal SCI), 102 (2016) pp.300-307.
- **Published a Book :** The title of book is “Linear and Nonlinear Stability Analysis in a Horizontal Porous Layer” In LAP LAMBERT Academic Publishing.
  - **Ongoing Project(SERB-TAR/2018/001290):** The effect of heat source on non-Newtonian fluid flow through a horizontal porous bed.