



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 (12 years)

1. 2016 - till date: Assistant Professor, FST, IFHE, 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 Antony A. Hill, Double-diffusive convection in an inclined porous layer with a concentration based internal heat source, *Continuum Mechanics and Thermodynamics*, (Springer Journal) (2017) 1-9.
2. **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.
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*, 7 (2017) 1-16.
4. **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.
5. **Anjanna Matta**, P. A. L. Narayana and Antony A. Hill, Nonlinear thermal instability in a horizontal porous layer with an internal heat source and mass flow, *Acta Mechanica* (Springer Journal SCI), (2016), pp. 1-9, DOI 10.1007/s00707-016-1591-8.
6. **Anjanna Matta** and P. A. L. Narayana, Effect of variable gravity on linear and nonlinear stability of double diffusive Hadley flow in porous media, *Journal of Porous Media* (Begell house Journal SCI) 19 (4) (2016) pp. 287–301.