



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:

- **Published a Book :** The title of book is “**Linear and Nonlinear Stability Analysis in a Horizontal Porous Layer**” In LAP LAMBERT Academic Publishing, ISBN: 978-3-330-07597-9.
 - **Ongoing Project (SERB-TAR/2018/001290):** The effect of heat source on non-Newtonian fluid flow through a horizontal porous bed.
 - **Executive Council Member** for *Indian Society of Theoretical and Applied Mechanics*
1. **Anjanna Matta**, On the stability of hadley-flow in a horizontal porous layer with non-uniform thermal gradient and internal heat source, **Microgravity Science and Technology, (SCI Journal)** (2019) 1-7.
 2. **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.
 3. **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.
 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.