

Faculty Profile



Name: Dr.UPENDAR MENDU

Designation: Assistant Professor

Teaching Areas: Mathematics

Research Interests: Data Science - Machine learning - Deep Learning - Fluid Mechanics
Micropolar and couple stress fluids -Convective heat and mass transfer -
porous media - CFD, Nanofluids, Stability Analysis.

Education:

1. Ph.D. N.I.T. Warangal, 2014
2. M. Sc. (Applied Mathematics) N.I.T. Warangal, 1998

Research / Selected Publications:

1. Upendar Mendu,” Application of Successive Linearization Method on Steady Radial Flow of Nanofluids Between Inclined Plane Walls”, Published in Journal of Nanofluids, 11 (2), 952-961 (2022) (Emerging Sources Citation Index (ESCI) Web of Science (Thomson Reuters), (Scopus))
2. Upendar Mendu,” An application of spectral linearization method on the steady two-dimensional radial flow of Au - Water and Ag - Water nanofluids between two inclined plane walls”, accepted for publication in International Journal of Mathematical Modelling and Numerical Optimization (Inderscience Publication), 2022 (SCOPUS).
3. Upendar Mendu, “A Novel Numerical Technique for Free Convective Heat and Mass Transfer under Mixed Thermal Boundary Condition”, Published in International Journal of Advanced Trends in Computer Applications Vol. 1(1), July -2019, pp. 75 - 82.
4. Upendar Mendu and K. Venumadhav,” Analysis of Heat and Mass Transfer Enhancement in Mixed Convection in a Brinkman - Darcy Flow of Au - Water and Ag - Water Nanofluids”, Published in Journal of Nanofluids, Volume 8, Number 1, January 2019, pp. 230-237(8). (Emerging Sources Citation Index (ESCI) Web of Science (Thomson Reuters), (Scopus))

Funded Research:

Research Projects - Ongoing

1. **Principal – Investigator:** Numerical Study of Entropy Generation in Nanofluids in Convergent/Divergent Channels, September, 2022 to Date, Sponsored by GITAM (Deemed to be University) Hyderabad