Dr. Madhur D. H.

Assistant Professor

Experience (Teaching and Industry)

1. RNSIT (July 2026 - till date)
2. PES University as a Full-time Research scholar (2023-2026)

Qualifications

B.Sc – Government Science college (2020)

M.Sc – Nrupathunga University (2022)

Ph.D – PES University (2026)

Specialization (Academics)

M.Sc – Mathematics

Specialization (Research)

Fluid Mechanics

Publications

- **MADHUR, D.H.,** SHANKAR, B.M. & SHIVAKUMARA, I.S. 2024 Unstable buoyant viscoelastic fluid flow in a vertical porous layer with temperature-dependent viscosity. ***Physics of Fluids***, 36, 083119.
- **MADHUR, D.H.,** SHANKAR, B.M. & SHIVAKUMARA, I.S. 2025 Instability of penetrative convection in a vertical porous layer with non-Dirichlet temperature conditions. ***International Journal of Thermal Sciences***, 207, 109358.
- SHANKAR, B.M., **MADHUR, D.H.** & SHIVAKUMARA**, I.S.** 2026 Buoyant variable viscosity fluid flow and instability in a vertical porous slab with imperfectly conducting boundaries. ***Journal of Fluid Mechanics***, 1030, A45.
- GURUVA REDDY, C.S., HEMANTH KUMAR, C., HARSHA, S.V. & **MADHUR, D.H.** 2025 Stability of mixed convective Jeffrey fluid flow in anisotropic porous media: LTNE effects and non-linear dynamics. ***Multiscale and Multidisciplinary Modeling, Experiments and Design***, 8, 472.
- SHANKAR, B.M., **MADHUR, D.H.** & SHIVAKUMARA**, I.S.** 2026 Can bidispersive vertical convection become unstable?. ***ZAMP***, 77, 258.