

Faculty Profile



Ms. N. Vinodhini, M. Sc., M.Phil, Ph.D

HIGHLIGHTS:

- Number of Journal Publications: 4
- H-Index: 3
- Project Funding Received: -
- Patents Published: -
- Patents Granted: -

PROFESSIONAL LINKS:

- Scopus ID: 58029382600
- Scopus Link: <https://www.scopus.com/authid/detail.uri?authorId=58029382600>
- Google Scholar ID: <https://scholar.google.com/citations?user=ZJF0sx4AAAAJ&hl=en>
- Anna University Faculty ID: 278721
- AICTE Faculty ID: 1-43647720653
- Orchid ID: 0009-0004-3995-8950

PROFESSIONAL BACKGROUND:

- Teaching Experience till date: 1 year, 3months, 13 days

AREA OF SPECIALIZATION:

- Fluid Dynamics
- Lid-Driven Cavity
- Finite Difference Scheme
- Hybrid Nanofluids

COURSES CERTIFIED:

- NPTEL Online Certificate Course “Teaching and Learning in Engineering”- 4 weeks course completed.
- IIECP course

PAPERS PUBLISHED:

- **N. Vinodhini**, and V. Ramachandra Prasad, Numerical Study of Free Convection Ag-Water nanofluid flow in a square enclosure with viscous dissipation and heat generation/absorption effects in a porous medium with complex boundary conditions. Journal of porous media. Vol. 26(9): 77-99 (2022), (SCI, IF= 2.20).
- **N. Vinodhini**, and V. Ramachandra Prasad, Numerical Study of Magneto Convective Buongiorno Nanofluid flow in a Rectangular Enclosure Under Oblique Magnetic field with Heat Generation/Absorption and Complex Wall Conditions. Heliyon. Vol. 9 (2023), (SCI IF= 4.0).
- **N. Vinodhini**, and V. Ramachandra Prasad, Magnetic-Hybrid nanofluid Al_2O_3 /Cu-Oil flow in a porous square enclosure with Cattaneo Christov heat flow model-Sensitivity Analysis, Indian Journal of Chemical Technology. Vol.30 (2023), (SCI IF= 0.76).
- **N. Vinodhini**, and V. Ramachandra Prasad, Simulation of natural convection in a square cavity with micropolar fluid and magnetic fields using FVM, Indian Journal of Chemical Technology. Vol.31 (2024), (SCI IF= 0.76).

CONFERENCES/SEMINARS/WORKSHOPS ATTENDED:

- International Conference on “Emerging trends in Pure and Applied Mathematics” held on 12-13-2022, by Department of Mathematics of Applied Sciences, Tezpur University, Assam.
- “International Symposium on Emerging Trends in Mathematical Technique”, Organized by Department of Mathematical, PSG College of Arts & Science, Coimbatore, Tamil Nadu.
- International Faculty Development Program on “Applications of Mathematics in Various Fields with Innovative Approaches”, Bapatla Engineering College, Bapatla, organized by the Department of Mathematics, held from 21-11-2023 to 25-11-2023.
- “Enrich and Empower Math skills”, M. O. P Vaishnavi College for Women(Autonomous), Chennai, One week Faculty development Program, 03-11-23 to 09-11-23.
- National Webinar on Intellectual Property Rights (IPR) Patents And Design Filing, SRM, Institute Of Science And Technology, Kattankulathur.

PROFESSIONAL MEMBERSHIPS:

- All India Council for Technical Skill Development

OTHER DETAILS (if any):

- Served as faculty organizer of the VIT Mathematical Meet-2023, Organized by the Department of Mathematics, School of Advanced Sciences, held at VIT -Vellore, 07-01-2023.