

Faculty Profile

Name : Nidhi
Designation : Assistant Professor
Qualifications : Ph.D., M.Sc. (Mathematics), JRF-NET Qualified,
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Area of Interest/Specialization: Computational Fluid Dynamics,
Numerical Methods
Experience : 20+ years



Key Publications

1. Pooja Singh and Nidhi, “Integrals of Four Variables with Statistical Distribution associated with hyper geometric Function of Matrix Argument”, International Journal for Research in Applied Science & Engineering Technology (IJRASET), Vol. 7(IX), 928-935,
2. Nidhi and Lokendra Kumar, “MHD Double Diffusive Mixed Convective Boundary Layer Flow of Nanofluid past a Linear Stretching Vertical Plat”, AIP Conference Proceedings, Vol. 2214(1), 020025, 2020, [Indexed in Scopus] ISSN: 1551-7616.
<https://doi.org/10.1063/5.0003378>
3. Nidhi and Lokendra Kumar, “Cu–Al₂O₃/ engine oil Williamson Hybrid Nanofluid Flow over a Stretching/Shrinking Riga Plate with Viscous Dissipation and Radiation Effect”, Heat Transfer, Vol. 51(2), 2279-2305, 2022, [ESCI, Indexed in Scopus].
<http://doi:10.1002/htj.22400>
4. Nidhi and Lokendra Kumar, “CNTs Effect on Micropolar Hybrid Ferrofluid Flow over a Shrinking Wall with Magnetic Dipole Effect”, Indian Journal of Physics, Vol. 98(1), 213-233, 2024, [SCIE, Indexed in Scopus].
<https://doi.org/10.1007/s12648-023-02773-1>
5. Nidhi and Lokendra Kumar, “Magnetic Dipole and Mixed Convective Effect on Boundary Layer Flow of Ferromagnetic Micropolar Hybrid Nanofluid”, Journal of Nanofluids, vol. 13(2), 435-445, 2024 [ESCI, Indexed in Scopus].
<https://doi.org/10.1166/jon.2024.2123>

Research Papers presented in Conferences/ Seminars

1. Investigation of Nanofluid Flow Over a Stretching Riga Plate with the Inclusion of Non-Linear Radiation Effects, School of Advanced Engineering, UPES, Dehradun, 2024.
2. Magnetic Dipole and Mixed Convective Effect on Ferromagnetic Micropolar Hybrid Nanofluid Flow, Jaypee Institute of Information Technology, India, 2022.
3. Gyrotactic Bioconvection Mass Flow and Heat Transfer of Nanofluid Considering KKL Model, Department of Mathematics, Kurukshetra University, Kurukshetra, India, 2021.
4. Numerical Solution of Three-Dimensional Gyrotactic Bioconvection Flow and Heat Transfer of Nanofluid - A Bio Mathematical Model, Al Ameen College, Edathala, 2021.

5. MHD Double Diffusive Mixed Convective Boundary Layer Flow of Nanofluid past a Linear Stretching Vertical Plate, Jaypee Institute of Information Technology, India, 2020.
6. MHD Double Diffusive Nanofluid Flow Induced by a Power Law Stretching/Shrinking Sheet, Jaypee Institute of Information Technology, India, 2019.

Other Contributions

Attended FDPs, seminars, and workshops etc.