

Dr. Nivya Muchikel(

Assistant Professor(Selection Grade)

Educational

Qualification M. Sc., M.Phil., Ph.D.

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Experience Teaching: 21 Years Research: 04 years

Area of
Interest

Operation Research, Fluid Dynamics, Numerical Analysis.

Date of

Joining 29-08-2008

RVCE

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Award

Received award of appreciation and certificate of appreciation in recognition of dedication, commitment and invaluable contributions to the field of education by RVCE in association with Reach the need foundation and JSW on the occasion of "Engineering for a Sustainable future" on 17th September 2024.

List of Publications

- International Journal –03
- National journal: 01
- Conference proceedings: 03

List of International Journal Publications:

1. Anusha K1, P Tushal Gowda2, Sharanya BV3, Shreyas BC4, Dr. K Gajalakshmi5, **Dr. Nivya Muchikel**, Spatial and temporal variation of lake water quality parameters. International Journal of Scientific Research in Engineering and Management (IJSREM) Volume: 07, Issue: 05, May – 2023, ISSN: 2582-3930.
2. Jayalatha G, **Nivya Muchikel**. Modulated gravity effects on nonlinear convection in viscoelastic ferromagnetic fluids between two horizontal parallel plates. Heat Transfer. 2021; 50: 4328–4341. doi:10.1002/htj.22077 (Scopus, WOS, Q2).
3. Dr.Ramanathan and **Nivya Muchikel**, The effect of temperature dependent variable viscosity on Ferro convection in a porous medium, *International Journal of Applied Mechanics & Engineering*, 11 (1), 2006, 93-104.

List of national Journal Publications:

1. G Jayalatha and **Nivya Muchikel**, 'Mathematical Modelling and Non - linear Analysis of Thermal Convection with Rotational Modulation in Viscoelastic Ferromagnetic

Fluids.", RV Journal of Science Technology Engineering Arts and Management, 2(2), ISSN:2582-8819, 124-137, 2021.

List of Inter National Conference Proceedings Publications:

1. P. S. Athreya, P. K. C. Banasode, J. P N, S. B, **N. Muchikel** and V. G A, "Enhancing Functional Validation of Communication Systems Using Markov Process-Based Channel Models," *2025 3rd International Conference on Intelligent Data Communication Technologies and Internet of Things (IDCIoT)*, Bengaluru, India, 2025, pp. 241-245, doi: 10.1109/IDCIOT64235.2025.10915058.
2. S. P. R, J. G, **N. Muchikel** and S. N. Manjunath, "Investigation of Variable Viscosity Impact on Convection Dynamics in Viscoelastic Ferromagnetic Fluids," *2024 8th International Conference on Computational System and Information Technology for Sustainable Solutions (CSITSS)*, Bengaluru, India, 2024, pp. 1-8, doi: 10.1109/CSITSS64042.2024.10816832.
3. Jayalatha, G., **Muchikel, N.** (2023). Non-linear Convection with Time-Periodic Boundary Temperature Effect in Viscoelastic Ferromagnetic Fluids. In: Srinivas, S., Satyanarayana, B., Prakash, J. (eds) *Recent Advances in Applied Mathematics and Applications to the Dynamics of Fluid Flows. Lecture Notes in Mechanical Engineering.* Springer, Singapore. (Scopus, Q4) https://doi.org/10.1007/978-981-19-1929-9_5.