

Basic Details:

- **Name:** Dr. R. Vijayalakshmi
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- **Area or Subject:** Mathematics
- **Affiliation:** SRM Institute of Science and Technology, Department of Mathematics, Ramapuram Campus.

Educational Details:

- **Degree, University, Awarded Year:**
 - B. Sc. – The Standard Fireworks Rajaratnam College for Women, Sivakasi, Madurai Kamaraj University, 1998
 - M. Sc. – The Standard Fireworks Rajaratnam College for Women, Sivakasi, Madurai Kamaraj University, 2000
 - M. Phil. – Ayya Nadar Janaki Ammal College, Sivakasi, Madurai Kamaraj University, 2001
 - Ph. D. – SRM Institute of Science and Technology, Kattankulathur, 2020

Research Interests:

Computational Fluid Dynamics

Publications:

1. **R. Vijayalakshmi**, A. Govindarajan, J. Sasikumar, E. P. Siva, Chemical Reaction Effects on Radiative MHD Oscillatory Flow in a Porous Channel with Mass Transfer and Heat Absorption, International Journal of Scientific & Engineering Research, Vol. 6 (3), (2015), pp. 199 - 203.
2. M. Vidhya, **R. Vijayalakshmi**, A. Govindarajan, Chemical Reaction Effects on Radiative MHD Oscillatory Flow in a Porous Channel with Heat and Mass Transfer in an Asymmetric Channel, ARPN Journal of Engineering And Applied Sciences, Vol. 10 (4), (2015), pp. 1839 - 1845. **SNIP 0.628 (SCOPUS)**
3. **R. Vijayalakshmi**, A. Govindarajan, Slip Effect on Radiative MHD Oscillatory Flow with Chemical Reaction in an Asymmetric Channel, Global Journal of Pure and Applied Mathematics, Vol. 12 (2), (2016), pp. 43 - 49. **SNIP 0.368 (SCOPUS)**
4. **R. Vijayalakshmi**, A. Govindarajan, Chemically Reacting MHD Oscillatory SlipFlow in an Asymmetric Channel with both Concentration and Temperature Variation, International Journal of Pure and Applied Mathematics, Vol. 114 (6), (2017), pp. 61 - 66. **SNIP 0.394**
5. A. Govindarajan, **R. Vijayalakshmi**, V. Ramamurthy, Combined Effects of Heat and Mass Transfer to MHD Oscillatory Dusty Fluid Flow in a Porous Channel, Journal of Physics: Conference Series, 1000, (2018), pp. 1 - 11. **SNIP 0.447 (SCOPUS)**
6. A. Govindarajan, **R. Vijayalakshmi**, Hall Current Effect in MHD Oscillatory Couple Stress Dusty Fluid through an Inclined Saturated Permeable Channel, International Journal of Engineering & Technology (UAE), Vol. 7, (2018), pp. 801 - 805. **SNIP 0.810**
7. **R. Vijayalakshmi**, A. Govindarajan, Effect of Partial Slip on Hydromagnetic Oscillatory Dusty Fluid Flow in an Asymmetric Wavy Channel, AIP Conference Proceedings, 2112, (2019), pp. 1 - 9. **SNIP 0.300 (SCOPUS)**
8. A. Govindarajan, **R. Vijayalakshmi**, Energy Transfer Effects in Hydromagnetic Oscillatory Dusty Fluid Flow in a Vertical Porous Channel, AIP Conference Proceedings, 2112, (2019), pp. 1 - 8. **SNIP 0.300 (SCOPUS)**
9. **R. Vijayalakshmi**, A. Govindarajan, Impact of Heat Transfer and Viscous Dissipation on Unsteady MHD oscillatory Dusty Fluid Flow Through a Vertical Porous Channel, Journal of Physics: Conference Series, 1377, (2019), pp. 1 - 16. **SNIP 0.447 (SCOPUS)**
10. Ramya Ramadoss, Rajkumar Krishnan, V. Vasanthi, Divya Bose, **R. Vijayalakshmi**, Rajashree Padmanabhan, Balakumar Subramanian, New Insights for Consummate Diagnosis and Management of Oral Submucous Fibrosis Using Reactive and Reparative Fibrotic Parameter Derived Algorithm, Journal of Pharmacy & BioAllied Sciences, Volume 13, Issue 5, Page 323 – 332, Year 2021. **SNIP 1.142 (SCOPUS, ESCI)**

11. R. Jeyalakshmi, **R. Vijayalakshmi**, Green Products Purchases – A Transition towards Sustainable Development, Indian Journal of Natural Sciences, Vol.13 / Issue 73 / August / 2022.
12. **R. Vijayalakshmi**, B. Thiripura Sundari, Exact Solution for Heat Transfer of Hydromagnetic Oscillatory Dusty Fluid Through a Porous Plate with Uniform Suction and Injection, Journal of Algebraic Statistics, Volume 13, No. 3, 2022, p. 3613-3627.
13. B. Thiripura Sundari, **R. Vijayalakshmi**, Significance of HMT Effects on Hydromagnetic Oscillatory Jeffrey Fluid Through a Tube, Journal of Algebraic Statistics, Volume 13, No. 2, 2022, p. 3383-3389.
14. **R. Vijayalakshmi**, A. Govindarajan, B. Thiripura Sundari, Impact of Hall Current and Rotation on Unsteady MHD Oscillatory Dusty Fluid Flow Through Horizontal Porous Plates, Lecture Notes in Networks and Systems, August 2022. (SCOPUS)
15. B. Thiripura Sundari, **R. Vijayalakshmi**, Exact Solution for HMT effects on MHD Jeffrey Fluid Flow in the presence of Porous Medium by Laplace Transform Technique, JP Journal of Heat and Mass Transfer, July 2023. (SCOPUS)

Academic Experience:

- SRM Institute of Science and Technology, Ramapuram, Assistant Professor, from 28.08.2008 to till date
- Saveetha Engineering College, Thandalam, Chennai, Lecturer, from June 2005 to August 2008
- PSR Engineering College, Sevalpatti, Sivakasi, Lecturer, from August 2004 to December 2004

Other Details:

- Currently guiding one Full Time Research Scholar in Fluid Dynamics

Achievements and Awards:

- Certificate of Appreciation for Publication - SRM University, Kattankulathur, 2015
- Best Paper Presentation Award – International Conference conducted by the Department of Mathematics – JECRC University, Jaipur, Rajasthan, India, August 2020
- NPTEL Online Certification – Laplace Transform (**Elite**)
- NPTEL Online Certification – Engineering Mathematics – I (**Elite**)
- NPTEL Online Certification – Enhancing Soft Skills and Personality – (**Elite Silver**)
- NPTEL Online Certification – Numerical Methods: Finite Difference Approach, Introduction to Probability and Statistics (Completed)

Membership:

IAENG (International Association of Engineers)

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