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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. **SNIIP 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 Slip Flow 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 Hydromagetic 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 Hydromagetic 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)