Name : Dr. R. SAKTHIKALA

Designation : Associate Professor

Department : Mathematics PG

Qualification: M.Sc., M.Phil., B.Ed., SET., Ph. D

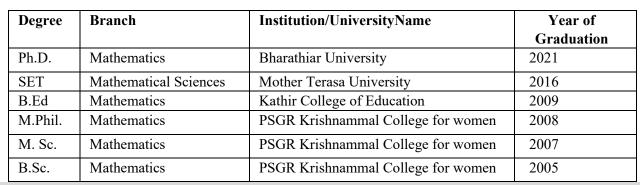
Experience: Teaching -16 Years

Research: 12Years

Area of Specialization: Fluid Dynamics

Email (Official ID): sakthikalar@psgrkcw.ac.in

Academic Qualifications



Additional Qualifications

Diploma/ Vocational/Certification	Area of Specialization	Institution/University/Agency Name	Year
Certification	100+	Coursera	2023 -2024
Certification	Introduction to R Software	NPTEL	2018
Certification	Descriptive Statistics with R Software	NPTEL	2019
Certification	Operations Research	NPTEL	2019

Research Guidance

Programme	No. of Scholars		
	Completed	Pursuing	
M.Phil.	3	-	

Research Publications (Indexed) International

- 1. "A Comparative Study between Millets Vs Junk Foods", Indian Journal of Natural Sciences, (WOS)
- 2. "MHD Second Grade Fluid Flow An Infinite Permeable Plate In A Porous Medium Presence Of Radiation And Chemical Reaction", International Journal of Mechanical Engineering, (Scopus)
- 3. "MHD Rotating Flow Through A Porous Medium Embedded In A Second Grade Fluid", *NVEO*, (Scopus).
- 4. "Heat And Mass Transfer With Radiation In A Convective Flow Between Vertical Wavy Channels Due To Travelling Thermal Waves", *TJCME* (Scopus)
- 5. "Ion Slip Effect On A Convective Porous Flow Between A Long Vertical Wavy Wall And A Parallel



Flat Plate", The International journal of analytical and experimental modal analysis, (UGC Care list)

- 6. "Effect of Hall Current on Convective Porous Flows between a long vertical wavy wall and a parallel flat plate", *Journal of Information and Computational Science*, (UGC Care list Group II)
- 7. "Effect Of Radiation And Temperature Dependent Heat Source On Natural Convective Flow In A Porous Medium Bounded By A Long Vertical Wavy Wall And A Parallel Flat Plate", *Solid State Technology*, (Scopus)
- 8. "Effect Of Temperature Dependent Heat Source And Radiation On The Convective Flows Between Vertical Wavy Channels Due To Travelling Thermal Waves", *IJARET*, (*Scopus*).
- "MHD Oscillatory Flow of Non-Newtonian Fluid through Porous Medium in the Presence of Radiation and Chemical Diffusion with Hall Effects",
 International Journal on Emerging Technologies, (UGC Care list Group – A & Scopus indexed)
- 10. "Unsteady MHD Flow Through Porous Medium Over A Slip Condition", *INFOKARA RESEARCH*, (*UGC Care list Group A*)
- 11. "An unsteady MHD mixed convective flow with heat and mass transfer over a slip condition", *The International journal of analytical and experimental modal analysis*, (UGC Care list Group A)
- 12. "Unsteady MHD flow of a viscoelastic fluid with Oscillating temperature, Chemical reaction and Radiation effect in a Porous Medium", *International Journal of Research in Advent Technology*, (UGC)
- 13. "Heat and Mass transfer of Unsteady MHD flow of Kuvshinski fluid with heat source/sink and Soret effects", *IJMET*, (Scopus)
- 14. "Unsteady MHD Free Convection Flow of a Viscous Dissipative Kuvshinski Fluid Past an Infinite Vertical Porous Plate in the Presence of Thermal Radiation and Chemical Effects, *IJMTT*, (*UGC*)
- 15. "Unsteady MHD free convective flow of a viscous fluid past a vertical porous plate embedded with the porous medium with heat source dependent in slip flow regime", *International Journal of Pure and Applied Mathematics*, (Scopus special issue)

Paper Presentations in Conference/Seminar: International: 5 National: 2

Conference/Seminar/Workshop Organized: 5

Grants: 2 - GRG Trust: 2016 -2017, 2023 - 2025

- ✓ Worked as a Principal investigator in the project titled Stability of a Plane reaction in a porous medium under GRG Trust scheme during 2016 2017 with a financial assistant of Rs.10000/-
- ✓ Working as a co-investigator in the project titled Geophysical and Astrophysical Applications of Shear flow Instabilities using Open Foam / Sci-lab under GRG Trust scheme during 2023 2025 with a financial assistant of Rs.40000/-

Contribution

- Admission Coordinator (2023 to till date)
- Committee Member, NAAC (2018 to till date)
- Spoken tutorial Coordinator