

**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

Degree	Branch	Institution/UniversityName	Year of Graduation
Ph.D.	Mathematics	Bharathiar University	2021
SET	Mathematical Sciences	Mother Teresa University	2016
B.Ed	Mathematics	Kathir College of Education	2009
M.Phil.	Mathematics	PSGR Krishnammal College for women	2008
M. Sc.	Mathematics	PSGR Krishnammal College for women	2007
B.Sc.	Mathematics	PSGR Krishnammal College for women	2005

#### 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**).
9. “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**

**Participation in Conference/ Seminar/ Workshop /Webinar/FDP/STC: 27+**

**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