

Academic Profile

1. Name : **Dr. R. LAKSHMI**
2. Designation : Assistant Professor
3. Department : Department of Mathematics
4. Institution : PSGR Krishnammal College for women,
Coimbatore



5. Qualification with Specialization

Degree	Specialization	Year of Passing	Institution/ University	Division
PhD	Fluid Dynamics	2015	Bharathiar University	Commended
M.Phil	Mathematics	1998	Annamalai University (Regular)	I Class
M.Sc	Mathematics	1995	University of Madras	I Class
B.Sc	Mathematics	1993	University of Madras	I Class

6. Additional qualification if any (Degree/ Diploma/Certification)

Sl. No	Qualification	Year of Passing
1	Coursera Courses Completed - 64	2023
2	3 Months Integrated Online Certificate Course Statistical Data Analysis & Its Application (Basic to Advance Implementation)	2022
3	PGDCA	2007
4	DCA	2005
5	Hindi-Prathmic	2003

7. Teaching Experience as Assistant Professor : 20 years & 3 months

S.No.	Institution	Classes taken	Years		Duration
			From	To	
1	PSGR Krishnammal College for Women, Coimbatore	B.Sc, Mathematics, Physics, Chemistry B.Com., BBA M.Sc., Mathematics, M.Com & M. Phil.,	July 2005	Till Date	20 years and three months

8. Awards/ Honors Received :

Awards/Honors	Agency/Institute	Year of Award
Best Faculty Award	PSGRKW	2015
Best Faculty Award	Nature Science Foundation	2020
Best Professor Award	Silampoli Foundation	2025

9. Technical Proficiency

- Programming languages : C, MATLAB
- Database Tools : MS OFFICE, SPSS

10. Area of Interest

- Fluid Dynamics
- Algebra
- Linear Algebra
- Mathematical Modeling, Entrepreneurial Development , Design Thinking

11. Research Guidance

Programme	No .of Scholars	
	Completed	Pursuing
PhD	2	1
Mphil	32	-

12. M. Sc Projects Accomplished : 30

13. Research projects Proposed: Applied to NBHM

14. Research Publication:

Published over 50 research papers in reputed Science Citation Indexed Expanded / Scopus international journals.

LIST OF PUBLICATION (Significant)

- 1) **Lakshmi R.**, and M, Kanchana, 2024, Three-Dimensional Rotating Surface With Thermophoresis and Variable Thermal Conductivity In Maxwell Nanofluid, ZKG International, Vol 9, Issue 1, Pg. No: 3341-3349.
- 2) **Lakshmi R.**, and A Subashini, 2024, Consequence effects of inclined Lorentz force flow of hybrid nanofluid over a stretching sheet with dissimilar base fluids., ZKG international, Vol 9, Issue 1, Pg. No. 3311-3321
- 3) **Lakshmi R.**, and A. Subashini, 2023, Lorentz force and viscous dissipation consequences convective flow of a hybrid nanofluid with different base fluids in heat

- transfer over a stretching sheet, Tuijin Jishu/Journal of Propulsion Technology, Vol .44 No. 5 (2023), Pg. No : 25-37.
- 4) **Lakshmi R.**, and M Kanchana, 2023, Brownian motion and thermophoresis in SWCNT due to bidirectional rotating stretching surface, International Journal of Engineering Inventions, Volume 12, Issue 5, Pg. No: 344-350.
 - 5) **Lakshmi R.**, and Santhakumari A, 2023, Effect of MHD flows due to Second Grade Fluid over a rotating porous disk, Journal of Emerging Technologies and Innovative Research, Volume 10, pg. No 1525-156
 - 6) **Lakshmi R.**, R. Vijayakumar, A. Subashini, and M. Kanchana, 2022, An Effect of Heat Transfer on MHD Flow of Nanofluids Rotating on Porous Disk, Mathematical Statistician and Engineering Applications, Vol 71, No.4.Pg No: 2314-2338.
 - 7) **Lakshmi R.**, A.Subashini, and M. Kanchana., 2022, Effect of Hall parameter on MHD flow of nanofluids due to Non-coaxial Rotation of porous disk and a fluid at infinity, Vol 71, No.4.Pg No: 2339-2361.
 - 8) **Lakshmi R.**, Santhakumari A., 2021, The effects of Hall current on the flow due to the oscillating rotating porous disk with a viscous fluid at infinity: graphical solutions using MATLAB. Advances in Mathematics: Scientific journal 10(2021), no.5, pp 2491-2511.
 - 9) **Lakshmi R.**, Kalaiselvi M, and Santhakumari A., 2021, A Study on Heat and mass transfer of an unsteady MHD natural convective flow of a Nano fluid in the presence of Diffusion – Thermo with inclined magnetic field and thermal radiation, Global journal of pure and applied Mathematics, **Volume 16, Pages 79-92.**
 - 10) **Lakshmi R.**, Kalaiselvi M and Santhakumari A, 2020 , MHD Flows Due to Non-Coaxial Rotations of Porous Disk and a Viscous Fluid At Infinity: Graphical Solutions Using Matlab, Advances in Mathematics: Scientific journal, Vol 9(11): 9287-9301
 - 11) **Lakshmi R.**, Greeshma Joy and Sanitha Shaji CS, 2019, A Study On partial slip flow and heat transfer of Non Newtonian fluid due to a rotating porous disk. International Journal of Advanced Research and Development, **Volume 4, Pages 126-132.**

- 12) **Lakshmi R.**, and Sanitha Shaji CS , 2019, A study on nano fluid flow due to a rotating porous disk with slip condition, Journal of Emerging technologies in Research, **Volume 6, Pages 127-136.**
- 13) **Lakshmi R.**, Meenambigai, A.R and Swetha, 2019, Soret Effect on Unsteady MHD free convective flow over an inclined plate with heat and mass transfer, Advances in Applied Research , **Volume 11, Pages 72 - 98.**
- 14) **Lakshmi, R.**, and K. Sindhu, 2018, Thermal Radiation and Heat transfer effects of Magneto hydrodynamic flow of nanofluid over a rotating frame, Advances in Applied Research, **Volume 10, Pages 57 to 65**

15. Study Materials Developed

Sl. No	Name of the study Material
1	Logical Reasoning – UG (General Knowledge book) for all disciplines
2	e- content developed for Fluid dynamics, Operations Research
3	Algebra – For CSIR /UGC – NET Exam

16. Reviewer for Journal

Sl. No	Position	Name of the journal/ Society	Period	
			From	To
1	Reviewer	Journal of Naval Architecture and Marine Engineering	2009	Till date
2	Reviewer	Journal of Aerospace Engineering	2015	Till date

17. Participation and Presentation in Seminar/Conferences/Workshops/FDP

Participated in more than 150 academic programmes such as conferences, seminars, workshops and faculty development programmes across institutions in India and few from abroad through online and around 25 papers has been presented

18. Acted as a Resource Person – 10 + Invited Talks

19. Participation in Orientation / Refresher / Other Courses: 15

20. National Seminar/Conference/Workshops/FDP-Events Organized

Organized more than 50 academic events, including conferences, seminars, workshops and FDPs, on mathematical concepts and associated software tools.

(Significant Events Organized)

Sl. No	Name of the event	Date (s)	Address of the Institution/Organization where held	College Level/Inter Collegiate level
1	National Conference on mathematical	October 16 th and 17 th , 2024	PSGR Krishnammal College for Women, Coimbatore	National Level

	Innovations in Science, Engineering and Technology			
2	NBHM Sponsored National Conference on Mathematics and Computer techniques in Industries	March 22 nd and 23 rd , 2016	PSGR Krishnammal College for Women, Coimbatore	National Level
3	NCSTC Sponsored National Conference on Algebra and Analysis	August 23 rd and 24 th , 2013	PSGR Krishnammal College for Women, Coimbatore	National Level
4	CSIR Sponsored National Seminar on Advances in mathematical modeling	Feb, 2 nd and 3 rd , 2012	PSGR Krishnammal College for Women, Coimbatore	National level
6	Ramanujam's day Celebrations	Dec. 22 nd 2012	PSGR Krishnammal College for Women, Coimbatore	College Level
7	Inspire Programme III	December 25 th -30 th , 2012	PSGR Krishnammal College for Women, Coimbatore	Regional Level
8	Inspire Programme II	May, 2012	PSGR Krishnammal College for Women, Coimbatore	Regional Level
9	Inspire Programme I	December, 2011	PSGR Krishnammal College for Women, Coimbatore	Regional level
10	State Level Mathematics Quiz programme for PG	Sep. 27 th , 2010	PSGR Krishnammal College for Women, Coimbatore	State Level
11	Colloquium on Mathematics Scenario	Jan. 12 th , 2008	PSGR Krishnammal College for Women, Coimbatore	National Level
12	National Conference on Mathematics – a reverberations	August, 2008	PSGR Krishnammal College for Women, Coimbatore	National Level

21. Spoken Tutorials Project of IIT, Bombay, Sponsored by Ministry of Human Resources Development, New Delhi - Coordinator -2024-2025

22. UGC SET/ NET Coaching Co-coordinator 2011 – 2012

23. ISO 9001: 2000 Internal Quality Auditor since 2007 till date.

Other Contributions

- Admission coordinator and Head department of Mathematics (SF), (for PG since 2007 to 2016)
- Board of Studies member
- NAAC – Criteria VI in charge
- Admission coordinator for UG Mathematics
- Class In charge, IV In charge, Coursera Coordinator
- Community Oriented Programme In charge since 2007