

PROFILE

Name	Dr. Shanthi S. R.
Position & Affiliation	Professor & Dean, Department of Basic Sciences
Areas of Interest	Applied Mathematics
Email	Dean_basicsciences@cambridge.edu.in
LinkedIn ID	https://www.linkedin.com/in/shanthi-raj-84a96577/
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Scopus ID	https://www2.scopus.com/authid/detail.uri?authorId=57880113100
Professional Webpage (if any)	

Educational Qualifications:

Ph.D	Bangalore University	India	2014
M. Sc.	Scott Christian College, Manonmaniam Sundaranar University	India	1992
B. Sc.	Sri Devi Kumari Womens College, Madurai Kamaraj University	India	1990

Areas of Research:

Fluid Mechanics

Brief Profile: (write about yourself)

Dr. Shanthi S R is a professor and dean in the Department of Basic Sciences and in charge of first-year engineering. Completed M.Sc. and Ph.D. in Mathematics. Published 10 international papers in reputed journals and 7 papers at national/international conferences. She attended more than 20 workshops/FDPs at different colleges around the city. She is a life member of ISTE and MATMAJ. She has 32 years of teaching experience and 14 years of research experience. Associated with the Cambridge Institute of Technology from August 2008 onwards.

She is guiding one Ph. D student.

Awards/Achievements/Others:

- She received the **BEST TEACHER AWARD** for the year 1997 and 2021.
- Achieved “100%” results in Applied Mathematics I for CSE stream in the year 2024.
- Achieved “100%” results in Engineering Mathematics I in the years 1998, 2002, 2003,2008.
- Achieved “100%” results in Engineering Mathematics II in the years 2005 and 2009.
- Achieved “100%” results in Engineering Mathematics III in the year 2011.

Courses Taught:

Publications/Patents:

Publications

- **“Comparison of SWCNT + MWCNT and SWCNT + MWCNT + Fe₃O₄ nanofluid across a spinning disk with suspended joule heating and non-linear thermal radiation: Multi-linear optimization”**, An International Journal of Computation and Methodology, <https://www.tandfonline.com/loi/unhb20>, 2024
- **“Linear and Quadratic Radiation of Dynamical Non-Fourier Flux in a Disk Flow with the Suspension of Hybrid Nanoparticles”**, Journal of Nanofluids Vol. 12, pp. 1–10, 2023.
- **“Mathematical model of steady incompressible Nano-fluid for heat transfer applications using MATLAB”**, IJHMT, 2022, Pages 31-58, <https://doi.org/10.1016/B978-0-12-823140-1.00003-8>.
- **“Comparison of steady incompressible Micropolar and Nano-fluid flow with for heat transfer applications”**, IJHMT, 2022,Pages 133-151, <https://doi.org/10.1016/B978-0-12-823140-1.00002-6>. “
- **Mixed Convective Flow around a Heated Vertical Slender Cylinder with Spatio-Temporal Stretching**”, Journal of Magnetohydrodynamics, Plasma and Space Research, Vol 19 (4) 2017, 475-491.
- **“Axissymmetric flow of a nanofluid past a vertical slender cylinder in the presence of a transverse magnetic fluid”**, Journal of Nanofluid, Vol 5 (9) 2016, 101-109.
- **“Heat Transfer in an Upper Convected Maxwell Fluid with Fluid Particle Suspension”**, [Advances in Applied Mathematics and Mechanics](#) , Vol. 7 (3) 06/2015, 369-386.
- **“Fluid Flow and Heat Transfer over a Permeable Stretching Cylinder”**, Journal of Applied Fluid Mechanics, Vol. 7 (1) 2014, 111-120.
- **“Axisymmetric Magneto-Hydrodynamic (MHD) Flow and Heat Transfer at a Non-Isothermal Stretching Cylinder”**, Applied Mathematics and Computation, Vol 219 (8) 2012, 3993-4005.
- **“Non-Newtonian Power – Law Fluid Flow and Heat Transfer over a Non-Linearly Stretching Surface”**, Applied Mathematics, Vol 3, 2012, 425-435.
- **“Effect of Chemical Reaction on the Convective Axisymmetric Flow over a Vertical Slender Cylinder”**, Communicated to Int. J of Thermal Sciences.
- **“Magnetic Field Effects on Axisymmetric Free Convective Flow of a**

Nanofluid Past a Vertical Slender Cylinder”, Communicated to Int. J of Heat and Mass Transfer.

Patents

Book/Book
Chapters

Name of the Book	Name of the Publications	Year of Publication
Calculus and Linear Algebra ISBN No:9789383506699	Sanguine Publisher	2021
Engineering Mathematics - IV	M/s. Eminent Publisher, Bangalore	2002 & 2006
Engineering Mathematics - III	M/s. Eminent Publisher, Bangalore	2001 & 2005
Engineering Mathematics -II	M/s. Eminent Publisher, Bangalore	2000 & 2004
Engineering Mathematics -I	M/s. Eminent Publisher, Bangalore	1999 & 2003

Research and Consultancy: