Faculty Profile

Basic Information:

NAME	:	Dr. S. Harinath Reddy
DESIGNATION	:	Assistant Professor
DEPARTMENT:		Humanities and sciences
DATE OF BIRTH	:	01/06/1983
DATE OF JOINING	:	07/09/2012
EMAIL ID	:	Harinath.singamala@gmail.com
EMPLOYEE ID:		: 439

Academic Profile:

Qualification	Name of the Board/University	YEAR
Ph.D (Mathematics)	JNTUA, Ananthapur	2017
M.Phil	S. V. University, Tirupati.	2012
M.Sc. (Mathematics)	S. V. University, Tirupati.	2005

Research Details:

1. Areas of Specialization	:	Fluid dynamics
2. No. of Publications	:	23
3. Awards Received	:	-
4. Research Guidance		
	No. of PhD Guided:	Guiding 2 students
	No. of MTech. Guided:	
	No. of B.Tech. Guided:	
5. Details of Professional Membership:		APTSMS life Member
6. Subjects Taught	:	Differential equations and vector calculus Matrix theory and calculus Discrete mathematics Probability and statistics Partial differential equations and transform techniques Mathematical foundations for computer science Operations research

Publication Details:

Title	Publisher	Published Year
Computational analysis for magnetized radiative Jeffrey nanofluid (Au/C2H6O2) flow in a rotating system with activation energy	International journal of chemical technology	2024
Numerical and neural network approaches to heat transfer flow in MHD dissipative ternary fluid through Darcy-Forchheimer permeable channel	case study in thermal engineering	2024
Magneto-Stefan blow enhanced heat and mass transfer flow in non-Newtonian ternary hybrid nanofluid across the nonlinear elongated surface.	Numerical heat transfer, part B: fundamentals	2023
Numerical investigation for Entropy Based Magneto nanofluid flow over non-linear stretching surface with slip and convective boundary conditions	Zeitschrift für Angewandte Mathematik and Mechanik	2023
MHD flow pattern in parabolic mode based on angle of inclination under cross-diffusion	Heat transfer	2022
Convective Flow of Prandtl Hybrid Nanofluid (SWCNT-MWCNT/EG) Over an Exponential Elongated Sheet with Second-Order Slip, Journal of Porous media	begell house	2022
Aspects of parabolic motion of MHD fluid flow past a vertical porous plate with cross-diffusion effects	Heat Transfer	2022
Numerical study on the parabolic flow of MHD fluid past a vertical plate in a porous medium	Heat Transfer	2022
Three dimensional laminar flow of magnetite water based nanofluids under heat generation and couple stress effects	JP Journal of Heat and Mass Transfer, Pushpa Publishing House	2020
MHD Double Diffusive Convective Flow Of Heat Generating Fluid In The Presence Of Soret Effect	International Conference on Mathematical Sciences and Applications (ICMSA-2019) AIP Conf. Proc	2020
Analytical Study On MHD Convective Non-Newtonian Fluid Flow Under The Influence Of Diffusion-Thermo And Heat Source Effects	International Conference on Mathematical Sciences and Applications (ICMSA-2019) AIP Conf. Proc.	2020
Analytical Study of Buoyancy Effects on MHD Visco-Elastic Fluid Past an Inclined Plate	International Conference on Mathematical Sciences and Applications (ICMSA-2019)	2020

	AIP Conf. Proc.	
Significance of chemical reaction on MHD near stagnation point flow towards a stretching sheet with radiation	SN applied sciences, A Springer nature journal	2020
Radiation and partial slip effect on MHD Jeffrey Nanofluid containing Gyrotactic microorganisms over a stretching surface	journal of thermal science and engineering applications	2020
The characteristics of Heat and Mass transfer on MHD fluid flow over a moving melting surface	Lecture notes in mechanical Engineering, Springer journal	2018
Study of ramped temperature influence on MHD convective chemically reactive and absorbing fluid past an exponentially accelerated vertical porous plate	Journal of Naval Architecture and Marine Engineering	2018
Casson fluid flow over a vertical porous plate under the existence of cross diffusion effects in conducting field	International Journal of Advanced Scientific Research and Management	2018
Joule heating influence on MHD Casson fluid over a vertical porous plate in the presence of thermal diffusion and chemical reaction	International Journal of Research in Advent Technology	2018
Joule heating and Radiation absorption effect on MHD convective and chemically reactive flow past a porous plate	Bulletin of pure and Applied sciences,	2018
Soret and Dufour effects on radiation absorption fluid in the presence of exponentially varying temperature and concentration in conducting field	Special Topics & Reviews in Porous Media – An International Journal	2016
Radiation absorbing and chemical reaction effects on MHD flow of heat generating Casson fluid past oscillating vertical porous plate	Frontiers in Heat and Mass Transfer	2016

Magneto Convective Flow of aNon-Newtonian Fluid through Non-Homogeneous Porous Medium past a Vertical Porous Plate with Variable Suction	Journal of Applied Mathematics and Physics	2016
Unsteady MHD free convection flow of a Kuvshinski fluid past a vertical porous plate in the presence of chemical reaction and heat source/sink	International Journal of Engineering Research in Africa	2015