Faculty Profile

Basic Information:

NAME	:	**Dr. L. HARI KRISHNA**
DESIGNATION	:	**Associate Professor**
DEPARTMENT:		**Humanities & Sciences (Mathematics)**
DATE OF BIRTH	:	**10.03.1974**
DATE OF JOINING	:	**10.02.2001**
EMAIL ID	:	**lhkmaths@gmail.com**
EMPLOYEE ID	:	**302**

Academic Profile:

Qualification	Name of the Board/University	YEAR
Ph.D.(Mathematics)	JNTUA, Anantapur	2010
M.Phil. (Mathematics)	M.K. University, Madurai	2003
M.Sc. (Mathematics)	S.V. University, Tirupati	1998

Research Details:

1. Areas of Specialization :		Fluid Dynamics, Heat and Mass Transfer in Fluid Flows, Computational Fluid Dynamics (CFD), Flow in Porous Media, Microfluidics and Nanofluidics and Biofluid Mechanics (blood flow, cardiovascular and respiratory systems)
2. No. of Publications :		32
3. Awards Received :		02
4. Research Guidance		
	No. of PhD Guided:	02
	No. of MTech. Guided:	---
	No. of B.Tech. Guided:	---
5. Details of Professional Membership:		• Life member of Andhra Pradesh Society for Mathematical Sciences (LM No.1271) • Life member of International Association of Engineers (IAENG -113256)

	• Member of Editorial board of **"IJ-ETA-ETS, IJ-CA-ETS and AES"** Journals in Engineering Technology & Sciences, Wadhwan City, Gujarat from 2010
6. Subjects Taught :	**B. Tech:** Algebra and Calculus, Mathematical Methods, Transform Techniques & Complex Variables, Differential Equations and Vector Calculus, General Aptitude, Probability & Statistics Mathematics-I, Mathematics-II, Mathematics-III and Discrete Mathematics **M.Sc:** Operations Research **M.Tech**: Numerical Methods for Partial Differential Equations and Computational Methods **M.C.A:** Probability and Statistics

Publication Details:

Title	Publisher	Published Year
AI-Enhanced Analysis of Unsteady Convection in Copper-Water Nanofluid Flow over a Vertically Moving Porous Plate	IEEE Xplore	2025
Machine Learning Analysis of Free Convection Flow through a Porous Medium in a Third-Grade Vertical Channel: A Comprehensive Exploration	IEEE Xplore	2025
Thermal outcomes in Stokes' 2nd problem for unsteady micropolar fluid go with the flow through a porous medium	Organization Development Journal	2023
Chemical reaction and magneto hydrodynamics effects on heat absorbing fluid past an inclined porous plate	Heat Transfer	2023
A Casson Fluid Flow Through An Inclined Vertical Porous Plate With Thermal Diffusion	European Chemical Bulletin	2023
Numerical investigation on Unsteady MHD convective flow of a Casson fluid through a vertical plate filled with uniform porous medium	JP Journal of Heat and Mass Transfer	2023
Effects of soret and chemical reaction on a casson fluid through a vertical plate in conducting field with variable boundary	NeuroQuantology	2022
Flexural And Impact Characterization Of Polymer Laminated Composites Reinforced With Bi-Woven Glass Fibers	Journal Of Optoelectronics Laser	2022
Heat transfer over a stretching porous surface on a steady MHD fluid flow	International Journal of Ambient Energy	2022
MHD flow of nano fluid past a vertical permeable semi-infinite moving plate with constant heat source	AIP Conference Proceedings	2020
Hall Effects on MHD Rotating Nano Fluid Over a Moving Flat Plate with Radiation and Chemical Reaction, Advances in Fluid Dynamics	Lecture Notes in Mechanical Engineering	2020
Aspects of MHD flow in parabolic form under viscous dissipation and chemical reaction	International Journal of Mechanical Engineering	2020
Free Convection Flow through a Porous Medium in the Third Grade Vertical Channel	International Journal of Advanced Science and Technology	2020
Mixed Stream of Viscoelastic liquid through A Porous Medium is Situated in A Vertical Channel with Permeable Walls	International Journal of Recent Technology and Engineering	2020
Hall effects on unsteady Magneto hydrodynamic Convection flow of Nano fluids past a Rotating porous plate	International Journal of Engineering and Advanced Technology	2019

Heat transfer effect on an oscillatory flow of Jeffrey fluid through a porous medium in a tube	International Journal of Advanced Scientific Research and Management	2018
Impact of Thermal in Stokes Second Problem for Unsteady Second Grade Fluid Flow	International Journal of Research in Advent Technology	2018
Combined effects on MHD Free Convection three dimensional flow through porous medium in vertical plates	Mathematical Sciences International Research	2015
Hall Current Effects on Unsteady MHD flow in a rotating parallel plate channel Bounded by Porous Bed on the Lower Half – Darcy Lapwood Model	Mathematical Sciences International Research Journal	2015
Analytical Study of Unsteady hydro magnetic generalized Couette Flow of an incompressible Couple stress fluid through a parallel plate channel	Engineering Sciences International Research Journal	2015
Radiative Heat Transfer on Unsteady MHD Oscillatory Visco-elastic flow through porous medium in a parallel plate channel	Mathematical sciences International Research Journal	2014
Hall Current Effects on MHD Free and Forced Convection flow through a porous medium in an infinite vertical plate in presence of inclined magnetic field	International Journal of Mathematics and Computer Research	2014
Hall Effects on Unsteady MHD three Dimensional flow of Electrically conducting Maxwell fluid through porous medium in a parallel plate channel with effect of inclined magnetic field	International J. of Engg. Research & Indu. Appls.	2014
Unsteady MHD three dimensional flow of Maxwell fluid through porous medium in a parallel plate channel under the Influence Of Inclined Magnetic field	International Journal of Advances in Engineering & Technology (IJAET)	2014
Unsteady free convection flow through a porous medium past a vertical plate with constant suction and heat sink under the effect of a magnetic field	International journal of Mathematics and Computer Applications Research(IJMCAR)	2014
MHD effects on Peristaltic flow of a Bingham fluid In an Inclined Channel	International Journal of Mathematical Archive	2011
Hydromagnetic Mixed Convection In a vertical parallel plate Microchannel	International Journal of Applied Mathematics and Mechanics	2011
Hall Current Effect on Unsteady free convection flow past an Infinite vertical plate with constant suction and Heat Sink	International Review of Pure and Applied Mathematics	2010
Mass Transfer Effects on the free Convective Flow of Stratified Viscous Fluid past a porous vertical plate under the influence of Hall Current	International Journal of Emerging Technologies and Applications in Engineering Technology and Sciences	2010
Time Periodic Hydro Magnetic Laminar Mixed Convection flow in Inclined Channel	International Journal of Emerging Technologies and Applications in Engineering Technology and Sciences	2010

MHD Forced Convection flow in a Horizontal corous Channel with Anisotropy Permeability	Journal of Pure and Applied Physics	2009
MHD Free and forced convection flow in an Inclined Channel	Acta Ciencia Indica	2008

Patent Details:

Title of Patent	Submitted/Published/Awarded
Method for simultaneous scheduling in multimachine flexible manufacturing system to minimize make span(**Patent Number**: 202241025473)	Published