**ANNAMACHARYA UNIVERSITY FACULTY DETAILS FOR WEBSITE**

**About Profile**

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NAME: Dr. S. Harinath Reddy

DATE OF BIRTH: 01/06/1983

DESIGNATION: Assistant Professor

DEPARTMENT: Humanities and Sciences

EMAIL ID: harinath.singamala@gmail.com

DATE OF JOINING: 07/09/2012

EMPLOYEE ID: AITS 991014

## Academic Profile

| **Qualification** | **Name of the Board/University** | **YEAR** |
| --- | --- | --- |
| **Ph.D(Mathematics)** | **JNTU Ananthapur** | **2017** |
| **M.phil** | **SV University, thirupathi** | **2012** |
| **M.sc(mathematics)** | **SV University, thirupathi** | **2005** |

## Research Details

1. Areas of Specialization: Fluid dynamics
2. List of Publications: 23
3. Awards Received : -
4. Research Guidance:
5. No. of PhD Guided: Guiding one student
6. No. of M.Tech Guided: -
7. No. of B.Tech Guided: -
8. Details of Professional Membership: APTSMS life member
9. Subjects Taught:
10. Differential equations and Vector Calculus
11. Linear Algebra
12. Probability and statistics
13. Discrete Mathematics
14. Operations Research
15. Mathematica Foundations for computer science
16. Ordinary differential equations

## 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 | 20.23 |
| 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) AIP Conf. Proc. | 2020 |
| 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 | 2020 |
| 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 |

## Patent Details

| **Sno.** | **Title of Patent** | **Submitted/Published/Awarded** |
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