# FACULTY PROFILE Dr. MANTHRI SATHYANARAYANA

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### **Professional Education:**

- Awarded a PhD from the Department of Mathematics, Osmania University, 2023
- SET Qualified in 2017 (TS-SET ref No. TS-SET/ 42454/2017)
- Post graduation in **M.Sc** (Applied Mathematics) from University college of Science, **OU** in 2016 with **65.6%**, Hyderabad.
- Graduation in **B.Sc (MPCs)** from BMR Degree College in 2014 with **76.2%**, Siddipet.
- Intermediate (MPC) Narayana Junior College in 2011 with 92.6%, Hyderabad.
- SSC from AP Boys Residential School in 2009 with 91.2%, Lingampally.

### **Professional Experience:**

- Worked as Asst.Professor in SLC 'S Institute of Engineering &Technology from 16-06-2016 to 20-06-2018.
- Working as an Assistant Professor in the Department of Mathematics and Statistics at St. Joseph's Degree and PG College, King Koti, since June 2023

### Paper Publications:

 Sathyanarayana M, Ramakrishna Goud T. Characteristics of MHD nanofluid flow towards a vertical cone under convective cross-diffusion effects through numerical solutions. Heat Transfer. 2022;1-20. doi:10.1002/htj.22761.

- Sathyanarayana M, Ramakrishna Goud T. Thermal Diffusion and Diffusion Thermo Effects on Chemically Reacting Nanofluid Flow Towards A Vertical Cone Filled by Porous Medium. Journal of Nanofluids, Vol.12, pp,1-9, doi:10.1166/jon.2023.2036
- 3. Sathyanarayana M, Ramakrishna Goud T. Non-Newtonian Casson Fluid Behaviour in the Presence of Nanofluid Particles During MHD Flow Through a vertical Cone Filled with Porous Material. Journal of Nanofluids Vol.12, pp.1-10, 2023.doi:10.1166/join.2023.2035.
- 4. Sathyanarayana M, Ramakrishna Goud T. Numerical study of MHD Williamson-nano fluid flow past a vertical cone in presence of suction/injection and convective boundary condition. Archives of Thermodynamic, vol. 44, Issue 2 ,pp.87-114, DOI: 10.24425/ather.2023.146560
- 5. Manthri Sathyanarayana, M.D.Fayaz. The fractional calculus approach to the (MHD) pipe flow of a fractional generalized Burgers' fluid in a porous space by using modified Darcy's relationship. International Journal of Research and Analytical Reviews, Volume 7, Issue 3,2022
- 6. Manthri Sathyanarayana, M.D.Fayaz Effects of Exponential Variable Viscosity Numerical analysis of fractional MHD Maxwell fluid with the effects of convection heat transfer condition and viscous dissipation. Journal of Interdisciplinary Cycle Research, Volume XII, Issue IX, September/2020
- Sathyanarayana, M., & Goud, T. R. (2023). Maxwell Fluid Performance on Free Convective Non-Newtonian Nanofluid Flow Over a Cone in Presence of Magnetic Field, Heat and Mass Transfer. *Communications in Mathematics and Applications*, 14(2), 1019–1037. https://doi.org/10.26713/cma.v14i2.2130

### **Paper Presentations**

- "Characteristics of MHD nanofluid flow towards a vertical cone under convective cross-diffusion effects through numerical solutions" in a XXX Congress Of APTSMS & International Conference On Mathematics & Its Relevance To Science And Engineering (ICMRSE-2022) March 12-14,2022 Organized By Department Of Mathematics, Osmania University, Hyderabad On 12th -14<sup>th</sup> March2022
- "Numerical study of MHD Williamson-nano fluid flow past a vertical cone in presence of suction/injection and convective boundary condition".in an International Conference on Mathematical Science and Emerging Applications in Technology

(ICMSEAT-2022) Organized by the Department of Mathematics, School of Science, GITAM (Deemed to University), Hyderabad on 9<sup>th</sup>-11<sup>th</sup> September 2022

- "Maxwell fluid performance on free convective non-Newtonian nano fluid flow over a cone in presence of magnetic field, heat, and mass transfer" in the National Seminar on Mathematical Techniques and Applications on 3<sup>rd</sup> &4<sup>th</sup>, March 2023 Organised by Department of Mathematics, Mahatma Gandhi University, Nalgonda, T.S.-508254.
- "Effects of Brownian motion and thermophoresis on Casson nanofluid flow past a stretching sheet" in the International Conference on Sustainable Development Goals Opportunities, Challenges and the Future Organized by S.T Joseph's Degree &PG College in Collaboration with Telangana State Council of Higher Education Rajagiri College of Social Sciences & Fathima College On 31 March,1&2 April 2023

### **Academic Achievements:**

• Active participating in all sport competitions held in our college and achieved number of prizes.

## **Professional strengths and Skills:**

- Dedicated and Self-Motivated Individual
- Quick learner with an ability to rapidly achieve organizational integration, assimilate job requirements and employ new methodologies. Energetic, creative, intuitive and self-motivated team player/builder.
- Result oriented, flexible and adaptable. Experienced and capable of working in a diverse work force.
- Successful in working with people with multiple cultures and with Inter personnel skills.

### Dr. MANTHRI SATHYANARAYANA

### **Assistant Professor**

#### **Department of Mathematics & Statistics**

St. Joseph's Degree & PG College, King Koti Road, Hyderabad, Telangana