

Name of Faculty Dr. OMESHWAR REDDY V
 Designation Assistant Professor
 Nature of Job/Appointment Contract
 Date of Joining 26 - 04 - 2023
 E-mail omeshwarreddy_maths@cbit.ac.in



Education Qualifications	Name of the Degree	Class
Ph. D	Doctor of Philosophy	Awarded
PG	M.Sc. (Mathematics)	First Class
UG	B.Sc (MPC)	First Class
SET	TS SET	

Work Experience

Teaching	20 Years
Research	--
Industry	--
Others	--

Area of Specialization - Computational Fluid Dynamics

Professional Memberships - IAENG:345370

Responsibilities held at Institution Level

Responsibilities held at Department Level

Research Guidance

Awards Received

Courses Handled at Under Graduate / Post Graduate Level.

Engineering Mathematics-I, Engineering Mathematics - II, Engineering Mathematics -III, Applied Mathematics, Complex variables & Special Functions, Prob. and Statistics, Bio Statistics, Calculus, Discrete Mathematics.

No. of Papers Published

National Journals – 00 International Journals – 14

National Conference – 00 International Conference – 01

Projects Carried out

Patents

Technology Transfer

Invited Speaker

No. of Books / Chapter

Published with details

Details of Short-Term Training

Programs/Faculty Development

Programs/Seminars/Workshops

/Other Trainings (Attended and/or Organized).

WS/ Seminars/ Conferences/ FDPs Attended

- Participated in the 3-Day Online Workshop on "Mathematics Meets Intelligent Systems" (MMIS-2025) held from 3rd - 5th November 2025. Department of Mathematics, AMC Engineering College, Bengaluru.
- Participated in one week National Faculty Development Programme on "MATHEMATICS FOR THE FUTURE: Bridging Theory and Technology" held during 13th -19th October 2025, Department of Mathematics, AMC Engineering College, Bengaluru.
- Participated in one week FDP "Python for Engineering Applications" from 17th – 21st March 2025 organized by the Department of Computer Science and Engineering, NITTTR, Chandigarh.
- Participated in one week FDP "Python for Engineering Applications" from 3rd – 7th March 2025 organized by the Department of Information Management and Emerging Engineering, NITTTR, Chandigarh, association with CBIT, Hyderabad.
- Participated in one week FDP "Python for Engineering Applications" from 10th – 14th Feb 2025 organized by the Department of Information Management and Emerging Engineering, NITTTR, Chandigarh, association with CBIT, Hyderabad.
- Participated in One-Week Workshop on "Interdisciplinary Computing in Basic and Applied Sciences with Python and Open Source Software", held from December 09th - 15th , 2024. Organized by Sardar Vallabhbhai National Institute of Technology, Surat, INDIA Association with MathTech Thinking Foundation, Fazilka, Punjab, INDIA
- Participated in one week 2nd "International Faculty Development Programme on Applied Mathematics in Engineering and Technology" from 20th March 2024 to 27th March 2024 organized by the Department of Mathematics, SRM TRP Engineering College, Tiruchirappalli, Tamilnadu, India.
- Participated in the five days International FDP on Advancements in Medical Imaging through Machine Learning and Deep Learning: Techniques, Applications, and Challenges held on 11th-15th March, 2024 organized by the Department of Mathematics, KL (Deemed-to-be)University, Hyderabad, Aziznagar, India.
- Participated in the "International Workshop on Stochastic Models in Data Science" organised by the Department of Statistics, SPMVV, Tirupati & ISPS during 17-20 February, 2024.

- Participated in One week online FDP on “Quality Education through OBE” organized by Chaitanya Bharathi Institute of Technology(Autonomous), Gandipet, Hyderabad- 500 075, Telangana, India., in association with IEEE Education Society Student Branch Chapter CBIT during 22nd - 27th January 2024
- Participated in a 5-day online FDP on “Advances in Graph Theorey” held from 11th – 15th September 2023 held at Division of Mathematics, School of Advanced Sciences, Vellore Institute of Technology – Chennai, India.
- Participated in a 5-day International workshop on “Applicable Mathematics for Science and Engineering- Recent Advances (AMSE-2023) ” held from 16th – 20th February 2023 held at VIT-AP University, Andhra Pradesh , India.
- Participated in one week FDP on “Pedagogical Approaches in Teaching Engineering Mathematics” held from 22nd – 27th August 2022 organized by the Department of Science and Humanities, Matrusri Engineering College, Hyderabad, in association with Department of Mathematics, UCS, Osmania University, Telangana.
- Participated in five day national online FDP on “Mathematical Modeling” held from 6th – 11th April 2022 by the Department of Mathematics and Humanities, Sarojini Naidu Vanita Maha Vidyalaya, Nampally, Hyderabad, Telangana.
- Paper presented on “CROSS DIFFUSION EFFECTS ON HYDRODYNAMIC RIVLIN-ERICKSEN FLUID FLOW PAST A VERTICALLY INCLINED PLATE IN PRESENCE OF HEAT SOURCE,VISCOUS DISSIPATION AND HEAT TRANSFER: A FINITE DIFFERENCE TECHNIQUE”, in the conference of **ICCIASH-2020**, during 13th – 14th August, 2020.
- Participated in a One Week Online international Faculty Development Programme on “Recent Advances in Mathematics and Statistics” By GITAM University, Visakhapatnam, A.P during 3rd – 8th August, 2020.
- Participated in One Week Online FDP on “Mathematical Modeling & Numerical Techniques 2020” held from 27th – 31st July 2020 by the Faculty of Mathematics, Department of Mathematics and Humanities, Kakatiya Institute of Technology and Science, Warangal, Telangana.
- Participated in One Week National Level Faculty Development Programme on “MATHEMATICAL MODELING & SIMULATION” by Faculty of Mathematics, Department of Applied Sciences & Humanities, MVSR Engineering College, Hyderabad, during 25 th to30 th June, 2020.

- Participated in the National Webinar on “Fluid Dynamics” by the Department of Mathematics and Statistics, School of Basic Sciences, Manipal University, Jaipur on 23rd June, 2020.
- Participated in One Week Online Faculty Development Programme on “TAXONOMY OF SOFTWARES RELATED TO MATHEMATICAL SCIENCES” during 9th - 14th June 2020, by Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad, Telangana.
- Participated in “National Conference on Mathematical Sciences and Applications” organized by the Department of Mathematics, UCS, Osmania University, Hyderabad, Telangana, during July 30th – 31st, 2018.
- Participated in “ Two Days Conference on Contemporary Approaches in Scientific Computing” organized by the Department of Mathematics, Osmania University, Hyderabad, Telangana, during August 29th – 30th, 2017.

Details of Journal Publications/ Conferences (National and International)

1. Omeshwar Reddy V, A Neelima S Thiagarajan, “Thermal diffusion and diffusion thermo effects on viscoelastic Rivlin-Ericksen fluid flow past a vertically inclined plate in presence of natural convection and transverse magnetic field”. *International Journal of Research and Analytical Reviews*, Vol. 5, Issue 3, pp. 16-32, 2018.
2. Omeshwar Reddy V, S Thiagarajan, “Mathematical modelling of MHD natural convective flow towards a vertically inclined plate in presence of Rivlin-Ericksen fluid, thermal diffusion, diffusion thermo, heat and mass transfer analysis”. *International Journal of Research and Analytical Reviews*, Vol. 5, Issue 3, pp. 790-804, 2018.
3. Omeshwar Reddy V, S Thiagarajan, “Rivlin-Ericksen fluid effect on mixed convective fluid flow past a wavy inclined porous plate in presence of sores, dufour, heat source and thermal radiation: A finite difference technique”. *International Journal for Research in Engineering Application & Management*, Vol.4, Issue 10, pp. 124-135, Jan 2019.
4. Omeshwar Reddy V, A Neelima and S Thiagarajan, “Finite difference solutions of MHD natural convective Rivlin-Ericksen fluid flow past a vertically inclined porous plate in presence of thermal diffusion, diffusion thermo, heat and mass transfer effects”, *International Journal of Applied Engineering Research*, volume14,

Number 3 (2019) pp.703-716.

5. Omeshwar Reddy V, A Neelima, “ Effect of Heat and Mass transfer on unsteady MHD flow of Rivlin-Ericksen fluid over an inclined channel with two parallel flat plates moving with oscillatory motion while one plate is adiabatic”. *Journal of Critical Reviews*, Vol. 7, Issue 16 (2020), pp. 56-68.
6. Omeshwar Reddy V, A Neelima , “Cross diffusion effects on hydrodynamic Rivlin-Ericksen fluid flow past a vertically inclined plate in presence of heat source, viscous dissipation and heat transfer: A finite difference technique”, *Kala Sarovar*, volume 23, number 2 (2020) pp.191-205 (*International Conference on “Continuity, Consistency and Innovation in Applied Sciences and Humanities”(ICCIASH-2020)* August, 2020).
7. Omeshwar Reddy V, V Nagaraju, “Thermo diffusion, heat and mass transfer analysis of MHD viscoelastic fluid flow towards a vertically inclined plate by perturbation technique”. *Journal of Mathematical Control Science and Applications*, Vol. 6, No 2(2020), pp.151-164.
8. Omeshwar Reddy V, A Neelima, “Unsteady MHD oscillatory flow of a viscous stratified fluid past a porous flat moving plate”, *Advances and Applications in Fluid Mechanics*, volume 27, number1, 2021 pp.47-65.
9. Omeshwar Reddy V, Shivaleela G, “Radiation and mass transfer effects on unsteady hydromagnetic free convection flow through porous medium past a vertical plate with heat flux”. *Journal of Mathematical Control Science and Application*, Vol. 7, No 2(2021), pp.285-299.
10. Omeshwar Reddy V, Nagaraju Vellanki, “Radiation and chemical reaction effects on MHD rotating fluid past a moving vertical plate”. *Journal of Mathematical Control Science and Application*, Vol. 7, No 2(2021), pp.301-312.
11. Omeshwar Reddy V, V Nagaraju, “Aligned Magnetic Field and Thermal Radiation effects on Unsteady MHD Flow an Inclined Porous Plate with Chemical Reaction and Heat Source: Finite Difference Technique”, *Journal of Mathematical Control Science and Application*, Vol. 7, No 1(2021), pp.145-261.
12. Omeshwar Reddy V, A Neelima, “Magnetohydrodynamic flow through a porous medium bounded by an oscillating porous plate”. *Advances and Applications in Fluid Mechanics*, Vol. 28, No 1(2022), pp.27-40.

13. Omeshwar Reddy V “Thermo physical aspects of three dimensional non-newtonian Fe_3O_4/Al_2O_3 water based hybrid nano fluid with rotational flow over a stretched plate”, *International Journal of Heat and Technology*, Vol. 43, No 1(2025), pp. 67-75.
14. Omeshwar Reddy V, A Neelima, “MHD and Unsteady Flow of Rivlin-Ericksen Fluid in a Permeable Media With Thermal and Mass Transport Over a Channel That is Inclined and Comprises f Two Rectangular Parallel Plates in Oscillation.” *International Journal of Applied Mathematics*, Vol. 38, No. 10s (2025), pp. 88-102.

