

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 (MPCs)	First Class
SET		

#### Work Experience

Teaching	17 Years
Research	--
Industry	--
Others	--

Area of Specialization Fluid Mechanics

Professional Memberships -

Responsibilities held at Institution Level -

Responsibilities held at Department Level -

Research Guidance -

Awards Received -

Courses Handled at Under Graduate / Post Graduate Level. M-I, M-II, M-III, Engineering Mathematics, Applied Mathematics, Complex variables and Prob Statistics, Discrete Mathematics.

No. of Papers Published National Journals – 00 International Journals – 12  
 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

1. Participated in a 5-day International workshop on “Applicable Mathematics for Science and Engineering- Recent Advances (AMSE-2023) ” held from 16<sup>th</sup> – 20<sup>th</sup> February 2023 held at VIT-AP University, Andhra Pradesh , India.
2. Participated in one week FDP on “Pedagogical Approaches in Teaching Engineering Mathematics”

held from 22<sup>nd</sup> – 27<sup>th</sup> August 2022 organized by the Department of Science and Humanities, Matrusri Engineering College, Hyderabad, in association with Department of Mathematics, UCS, Osmania University, Telangana.

3. Participated in five day national online FDP on “Mathematical Modeling” held from 6<sup>th</sup> – 11<sup>th</sup> April 2022 by the Department of Mathematics and Humanities, Sarojini Naidu Vanita Maha Vidyalaya, Nampally, Hyderabad, Telangana.
4. 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 13<sup>th</sup> – 14<sup>th</sup> August, 2020.
5. Participated in a One Week Online international Faculty Development Programme on “ Recent Advances in Mathematics and Statistics” By GITAM University, Visakhapatnam, A.P during 3<sup>rd</sup> – 8<sup>th</sup> August, 2020.
6. Participated in One Week Online FDP on “Mathematical Modeling & Numerical Techniques 2020” held from 27<sup>th</sup> – 31<sup>st</sup> July 2020 by the Faculty of Mathematics, Department of Mathematics and Humanities, Kakatiya Institute of Technology and Science, Warangal, Telangana.
7. 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<sup>th</sup> to 30<sup>th</sup> June, 2020.
8. Participated in the National Webinar on “Fluid Dynamics” by the Department of Mathematics and Statistics, School of Basic Sciences, Manipal University, Jaipur on 23<sup>rd</sup> June, 2020.
9. Participated in One Week Online Faculty Development Programme on “TAXONOMY OF SOFTWARES RELATED TO MATHEMATICAL SCIENCES” during 9<sup>th</sup> - 14<sup>th</sup> June 2020, by Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad, Telangana.
10. Participated in “National Conference on Mathematical Sciences and Applications” organized by the Department of Mathematics, UCS, Osmania University, Hyderabad, Telangana, during July 30<sup>th</sup> – 31<sup>st</sup>, 2018.
11. Participated in “ Two Days Conference on Contemporary Approaches in Scientific Computing” organized by the Department of Mathematics, Osmania University, Hyderabad, Telangana, during August 29<sup>th</sup> – 30<sup>th</sup>, 2017.

#### **Details of Journal Publications/ Conferences (National and International)**

1. Omeshwar Reddy V, 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, A Neelima and 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 solet, 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, Y.V.S. Rao, "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, K V Reddy, 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, V Sri Hari Babu, 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 Sri Hari Babu 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.