

Curriculum vitae

Dr. CHANGAL RAJU. MALARAJU,
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Educational Qualifications:

- **Ph.D.**, in Applied Mathematics from Sri Venkateswara University, Tirupati, 2008.
- **M. Phil**, S. V. University, Tirupati, 2005, First class.
- **M.Sc.**, Applied Mathematics, S. V. University, Tirupati. 1998, First class.
- **B.Sc.**, MPC, S.V. Arts College, S. V. University, Tirupati. 1996, First class.
- **M. Tech.**, CSE, Acharya Nagarjuna University, Guntur, 2010, First class

Teaching Experience: 18 years (As on date 4th March 2017)

- **Coordinator, Research and Development Cell**, Annamacharya Institute of Technology and Sciences (Autonomous) Rajampet, 1st November 2016 to till date.
- **Professor and Head**, Department of Humanities and Science, Annamacharya Institute of Technology and Sciences (Autonomous) Rajampet, 1st July 2011 to 31st October 2016.
AICTE Faculty ID: 1-721810306
(<http://www.aicte-india.org/dashboard/pages/facultydetails.php?aicteid=1-717734836&pid=1-5841586&year=2012-2013>)
- **Associate Professor and Head**, Department of Humanities and Science, Annamacharya Institute of Technology and Sciences (Autonomous) Rajampet, 18th November 2008 to 30th June 2011.
(**Ratified by JNTUA, Anantapuramu on 04-09-2010 with scale of pay 12000-420-18300-APRUGC-1996**)
- **Assistant professor** of Mathematics, from 2nd September 2002 to 17th November 2008, Annamacharya Institute of Technology and Sciences, Rajampet.
- **Lecturer** Mathematics, from 4th March 1999 to 28th August 2002, Madanapalli Institute of Technology and Science, Madanapalli.

Subjects Taught

- B.Tech: Mathematics-I, Mathematics-II, Mathematical Methods, Mathematics-III, Probability and Statistics
- M.Tech: Numerical Methods for Partial Differential equations and Computational Methods
- MCA : Probability and Statistics
- MBA : Statistics for Management
- M. Tech. : Computational Methods

Research Field

- Fluid dynamics
- Magneto Hydrodynamics (MHD)

Title of the thesis

- Ph.D: *a study of magnetic field effects on some flows in channels and past infinite plates.*
- M.Phil : *a study of free and forced convection flow in an inclined channel*

Ph. D guidance:

S.N o.	Name of the student	Year of admission	status	Topic	University
1	V. Ravikumar	2011	Awarded (2015)	Study on MHD convective heat and mass transfer flows past a vertical porous plate	JNTUA
2	P. Chandra Reddy	2012	Awarded (2017)	Study of magnetic field effects on convective flows past plates	JNTUA
3	L. Ramamohan Reddy	2012	Thesis submitted	Unsteady MHD free convection boundary Layer flow of heat generating and reacting fluid past a vertical Porous plate	JNTUA
4	S. Harinath Reddy	2013	Course work completed	Study of convective flow Newtonian and non-Newtonian fluids past an infinite porous plate	JNTUA
5	N. Kumar	2014	Under Course	Study of magnetic field effect on convective Heat and Mass	JNTUA

Papers published in Journals (National and International) :

1. G.Krishniah, S.V.K.Varma, **M. C. Raju** and S.Venkateswarlu, “Study of free and forced convection flow in an inclined channel”, *Bulletin of Pure and Applied Sciences*, Vol.24E (No.2), 491-509, **2005**. ISSN: 0970-6577.
2. **M. C. Raju**, N.Ananda Reddy, S.V.K.Varma and G.S.S.Raju, “A finite difference solution of a free and forced Convection flow in vertical channel with asymmetric wall temperature”, *Acta Ciencia Indica*, Vol. XXXIV M, No.4, 1877, **2008**. ISSN: 0253-7338.
3. N.P.Reddy, **M. C. Raju** and S.V.K.Varma, “Effect of aligned Magnetic field on Unsteady flow between a stretching sheet and Oscillating porous plate with Constant Suction”, *International Review of Pure and applied Mathematics*, **2008**, Vol.4, No.2, pp.211-218. ISSN: 0973-1350.
4. **M. C. Raju**, S.V.K Varma, P.V. Reddy and S. Saha, “ Soret effects due to Natural convection between Heated Inclined Plates with Magnetic Field”, *Journal of Mechanical Engineering*, Vol. ME39,No.Dec **2008**,43-48. ISSN: 0379-4318. **Citations-20**
5. **M. C. Raju**, S.V. K. Varma, G. S. S. Raju and L. Harikrishna, “MHD Free and Forced Convection Flow in an Inclined Channel”, *Acta Ciencia Indica*, Vol. XXXIV M, No.1, 371-381, **2008**. ISSN: 0253-7338.
6. N. Ananda Reddy, S. V. K. Varma and **M. C. Raju**, “Thermo diffusion and chemical effects with simultaneous thermal and mass diffusion in MHD mixed convection flow with Ohmic heating”, *Journal of Naval Architecture and Marine Engineering*, Vol. 6, No.2, 2009, 84-93. ISSN: 1813-8235. DOI: 10.3329/jname.v6i2.3761, Citations-6, impact factor 0.478, **Scopus H-Index: 2 SJR:0.23, SNIP: 0.67.**
7. S. Saha, G. Saha, Md. Q. Islam and **M. C. Raju.**, “Mixed convection inside a lid-driven parallelogram cavity with isoflux heating”, *Journal on Future Engineering and Technology*, Vol. 6. No.1, **2010.**, pp. 14-21. ISSN: 0975-7783. **Citations: 2**
8. **M. C. Raju**, S.V.K.Varma, N.AnandaReddy., “Mixed thermal convective flow through a horizontal wavy channel maintained at non uniform temperature”, *International Journal of Advanced Engineering & Applications*”, June **2010**, Vol. II, pp.161-166. ISSN: 0975-7783.
9. S. Saha, G. Saha, Md. Q. Islam & **M. C. Raju.**, “Convective Heat Transfer Inside An Enclosure With Double Discrete Heaters Exit Configurations”, *International Journal of Applied Mathematics*, Volume: 02 Issue: 1 (**2010**), 85-90.ISSN: 0975-7937.
10. N. A. Reddy, **M. C. Raju** and S.V. K. Varma., “Effects of unsteady free convective MHD non Newtonian flow through a porous medium bounded by an infinite inclined porous plate”, *Mapana J Sci*. Vol. 9, No.2, 2010, 6-20. ISSN: 0975-3303. **Citations: 1**
11. N. Ananda Reddy, **M. C. Raju** and S.V.K. Varma., “Soret effects on MHD three dimensional free convectioncouette flow with heat and mass transfer in presence of a

- heat sink” , *International Journal of Fluid mechanics*, 2(1), **2010**,pp.51-60. ISSN: 0975-4199.
12. **M.C.Raju**, S. V. K. Varma, Unsteady MHD free convection oscillatory Couette flow through a porous medium with periodic wall temperature, *Journal on Future Engineering and Technology*, July**2011**, Vol.6, No.4. Pp.7-12. ISSN: 0975-7783. **Citations-14**
 13. **M. C. Raju**, S.V. K.Varma, N. A. Reddy., “MHD Thermal diffusion Natural convection flow between heated inclined plates in porous medium”, *Journal on Future Engineering and Technology*.Vol.6, No.2, pp.45-48, 2011, ISSN: 0975-7783. **Citations-5**
 14. **M. C. Raju**, N. A. Reddy, S. V. K. Varma., “Hall-current effects on unsteady MHD flow between stretching sheet and an oscillating porous upper parallel plate with constant suction”, *Thermal science*, Vol. 15, No.2, pp. 45-48, 2011. ISSN: 0354-9836 **(IF: 1.05)** Citations-11 **Scopus H index-12 SNIP:1.21, SJR:0.45.**
 15. T.S. Reddy, **M. C. Raju**, S.V. K Varma, “Unsteady MHD free convection Oscillatory Couette flow through a porous medium with periodic wall temperature in presence of chemical reaction and thermal radiation”, *International Journal of Science and advances Technologies*, Vol.1, no.10, pp. 51-58, **2011**.ISSN: 2277-5137. **Citations: 3**
 16. T. S. Reddy, O. S. P. Reddy, **M. C. Raju** and S. V. K. Varma, MHD free convection heat and mass transfer flow through a porous medium bounded by a vertical surface in presence of Hall current, *Advances in Applied Science Research*, **2012**, 3 (6):3482-3490. ISSN: 0976-8610.
 17. T. S. Reddy, O. S. P. Reddy, **M. C. Raju**, S. V. K. Varma., Heat transfer in hydro magnetic rotating flow of viscous fluid through non-homogeneous porous medium with constant heat source/sink, *International journal of mathematical archive -3* (8), **2012**, 2964-2973, ISSN: 2229 5046.
 18. T. S. Reddy, S. V. K. Varma & **M. C. Raju**; Chemical reaction and radiation effects on unsteady MHD free convection flow near a moving vertical plate, *Journal on Future Engineering & Technology*, Vol. 7,No. 4, 11-20, May - July **2012**.ISSN: 0975-7783. **Citations: 2**
 19. V. Ravikumar , **M. C. Raju**, G. S. S. Raju., MHD three dimensional Couette flow past a porous plate with heat transfer, *IOSR Jour. Maths.*, Vol. 1, no.3, pp. 3-9, **2012**. ISSN: 2278-5728 **(IF: 1.312)**, **Citations-7**
 20. V. Ravikumar, **M. C. Raju**, G. S. S. Raju ., Heat and mass transfer effects on mhd flow of viscous fluid through non-homogeneous porous medium in presence of temperature dependent heat source, *International Journal of Contemporary Mathematical sciences*, Vol.7, No.32 , **2012**, pp. 1597-1604. ISSN: 1312-7586. **Citations-11 H index-13.**
 21. T. S. Reddy, **M. C. Raju** & S.V. K. Varma, “ The effect of slip condition, Radiation and chemical reaction on unsteady MHD periodic flow of a viscous fluid through saturated porous medium in a planar channel, *Journal on Mathematics*, Vol.1, No.1, **2012**, pp. 18-28. ISSN: 2277-5129.
 22. **M. C. Raju**, S.V.K Varma, N. Ananda Reddy., “Radiation and mass transfer effects on a free convection flow through a porous medium bounded by a vertical surface”, *Journal*

of Future Engineering and Technology, Vol. 7, No: 2, pp. 7-12 **2012**. ISSN: 0975-7783.

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23. K. V. S. Raju, **M. C. Raju**, S.V. Ramana, G. S. S. Raju, Unsteady MHD thermal diffusive, radiative and free convective flow past a vertical porous plate through non-homogeneous porous medium, *International Journal of Advancements in Research & Technology*, Vol. 2(7), 170-181, **2013**. (IF: 0.4)ISSN :2278-7763
24. T. S. Reddy, **M. C. Raju** & S. V. K. Varma , Chemical reaction and radiation effects on MHD free convection flow through a porous medium bounded by a vertical surface with constant heat and mass flux, *Journal of computational and Applied research in Mechanical Engineering*, Vol. 3 (1), 53-62, **2013**. Citations-2 ISSN: **2251-6549**
25. B. Seshaiyah, S.V. K.Varma, **M. C. Raju**, Induced magnetic field effects on free convective flow of radiative, dissipative fluid past a porous plate with temperature gradient heat source, *International Journal of Engineering science and Technology*, Vol.5, No.7, 1397- 1412, **2013**.e-ISSN: 0975–5462 ; p-ISSN: 2278–9510, Citations: **1**
26. V. Ravikumar, **M. C. Raju**, G. S. S. Raju, Magnetic field and radiation effects on a double diffusive free convective flow bounded by two infinite impermeable plates in the presence of chemical reaction, *IJSER* Volume 4, Issue 7, pp. 1915-1923,**2013**.(Impact factor **1.4**)ISSN 2229-5518
27. B. Seshaiyah, S. V. K.Varma, **M. C. Raju**, The effects of chemical reaction and radiation on unsteady MHD free convective fluid flow embedded in a porous medium with time-dependent suction with temperature gradient heat source, *International Journal of Scientific Knowledge*, Vol.3 No.2, pp. 13-24, **2013**.ISSN: 2305-1493.
28. T. S. Reddy, **M. C. Raju** & S. V. K. Varma, Unsteady MHD radiative and chemically reactive free convection flow near a moving vertical plate in porous medium, *JAFM*, Vol.6, no.3, pp. 443-451, 2013. Citations-4, **Scopus H index-11. IF 0.888, SNIP (2015): 1.04 IPP (2015): 0.98 SJR (2015): 0.34**, ISSN: 17353645 (p), 17353572(e) ([Regional Information Center for Science and Technology](#), Iran)
29. V. Ravikumar, **M. C. Raju**, G. S. S. Raju, S. V. K. Varma, “Magnetic field effect on transient free convection flow through porous medium past an impulsively started vertical plate with fluctuating temperature and mass diffusion”, *International Journal of Mathematical Archive*, Vol.4(6), 198-206, **2013**. ICV - 5.09, Citations-4, ISSN: **2229 5046**.
30. B. M. Rao, G. V. Reddy, **M. C. Raju**, S. V. K. Varma, MHD transient free convection and chemically reactive flow past a porous vertical plate with radiation and temperature gradient dependent heat source in slip flow regime, *IOSR Journal of Applied Physics*, Vol. 3(6), **2013**, 22-32.(IF: **1.345**), ISSN – 2278-4861, Citations: **2**
31. V. Ravikumar, **M. C. Raju**, G. S. S. Raju, A. J. Chamkha, “MHD double diffusive and chemically reactive flow through porous medium bounded by two vertical plates”, *International Journal of Energy & Technology*, 5 (4), **2013**, pp. 1–8. (ISSN **2035-911X**). Citations-9
32. K.V. S. Raju, T. S. Reddy, **M. C. Raju**, S. Venkataramana, “Free convective heat and mass transfer transient flow past an exponentially accelerated vertical plate with Newtonian heating in the presence of radiation”, *International Journal of Mathematics*

- and Computer Applications Research*; Vol.3, No.2, **2013**, 215-226. ISSN (P): 2249-6955; E-ISSN: 2249-8060. IF(JCC) : **4.1736**
33. K. V. S. Raju, T. S. Reddy, **M. C. Raju**, S. V. Ramana & K. J. Pillai, Unsteady MHD radiative, chemically reactive and rotating fluid flow past an impulsively started vertical plate with variable temperature and mass diffusion, *Indian Journal of Applied Research*, Vol.3 ,No. 3 , **2013**. (IF: **0.8215**) ISSN No. : 2249-555X
 34. K. V. S. Raju, T. S. Reddy, **M. C. Raju**, S. V. K. Varma, S. V. Ramana, Heat and Mass transfer effects on unsteady free convection boundary layer flow past an impulsively started vertical surface with Newtonian heating, *International Journal of scientific research*, Vol.2, No.2, **2013**, pp. 263-265. (ISSN: 2277-8179). (IF: **0.3317**)
 35. B. M. Rao, G.V. Reddy, **M. C. Raju**, S.V. K. Varma, Unsteady MHD free convective heat and mass transfer flow past a semi-infinite vertical permeable moving plate with heat absorption, radiation, chemical reaction and Soret effects, *International Journal of Engineering Sciences & Emerging Technologies*, October **2013**. Volume 6, Issue 2, pp: 241-257, ISSN: 22316604.(Impact factor **0.72**)
 36. B. M. Rao, **M. C. Raju**, G.V. Reddy, S.V.K. Varma, Unsteady MHD Free Convective Double Diffusive and Dissipative Visco- Elastic Fluid Flow in Porous Medium with Suction, *International Journal of Advances in Science and Technology*, Vol.7, No.2, **2013**, 81-107. ISSN: 2229- 5216
 37. M. Umamaheswar, S. V. K. Varma, **M. C. Raju**, “Combined Radiation and Ohmic Heating Effects on MHD Free Convective Visco-Elastic Fluid Flow Past A Porous Plate With Viscous Dissipation”, *International Journal of Current Engineering and Technology*, Vol.3, no.5, **2013**, pp. 1636-1640. ISSN 2277 – 4106.(IF: **2.52**)
 38. B. M. Rao, G. V. Reddy, **M. C. Raju**, “Unsteady MHD mixed convection of a viscous double diffusive fluid over a vertical plate in porous medium with chemical reaction, Thermal radiation and joule heating”, *International Journal of Applied Mathematics & Statistical Sciences (IJAMSS)* ; Vol.2(5), **2013**, 93-116. ISSN (P):2319-3972; ISSN(O): 2319-3980; IF(JCC): **1.4273**
 39. **M. C. Raju**, S. V. K. Varma, R. R. K. Rao, “Unsteady MHD free convection and chemically reactive flow past an infinite vertical porous plate”, *i-manager Journal of Future Engineering and Technology*, Vol.8 (3), **2013**, 35-40. Citations-5, ISSN: 0975-7783
 40. M. Umamaheswar, S. V. K. Varma, **M. C. Raju**, “Unsteady MHD free convective visco-elastic fluid flow bounded by an infinite inclined porous plate in the presence of heat source, viscous dissipation and Ohmic heating”, *International journal of Advanced Science and Technology*, Vol. 61, pp. 39-52, **2013**. <http://dx.doi.org/10.14257/ijast.2013.61.05>, ISSN: 2005-4238.
 41. K. V. S. Raju, T. S. Reddy, **M. C. Raju**, P.V. Satyanarayana, and S.V. Ramana, “MHD convective flow through porous medium in a horizontal channel with insulated and impermeable bottom wall in the presence of viscous dissipation and Joule’s heating”, *Ain Sham’s engineering Journal (Elsevier)*(2014), 5 (2), 543-551.DOI: 10.1016/j.asej.2013.10.007, ISSN: 2090-4479, Scopus H index- 14, SNIP: **0.932**, SJR: **0.43**. Citations: 3

42. V. Ravikumar, **M. C. Raju**, G. S. S. Raju, Combined effects of heat absorption and MHD on convective Rivlin-Ericksen flow past a semi-infinite vertical porous plate, *Ain Shams Engineering Journal*, (2014) 5 (3), 867–875, DOI: 10.1016/j.asej.2013.12.014 ISSN: 2090-4479. **Scopus H index- 14, SNIP: 0.932, SJR: 0.43. Citations: 3** (Elsevier)
43. A. J. Chamkha, T. S. Reddy, **M. C. Raju**, and S.V.K. Varma, “Unsteady MHD Free Convection Flow Past an Exponentially Accelerated Vertical Plate with Mass Transfer, Chemical Reaction and Thermal Radiation.” *International Journal of Microscale and Nanoscale Thermal and Fluid Transport Phenomena*, Vol.5, no.1, 2014, pp. 57-75. ISSN: 1949-4955
44. J. Philip, **M. C. Raju**, A. J. Chamkha and S.V. Varma, “MHD Rotating Heat and Mass Transfer Free Convective Flow Past an Exponentially Accelerated Isothermal Plate with Fluctuating Mass Diffusion.” *International Journal of Industrial Mathematics*, Vol. 6, No. 4, 2014 Article ID IJIM-00478, 10 pages, 297-306. ISSN: 2008-5621(P),2008-563X (O).
45. **M. C. Raju**, N. Ananda Reddy, S. V. K. Varma, “Analytical study of MHD free convective, dissipative boundary layer flow past a porous vertical surface in the presence of thermal radiation, chemical reaction and constant suction”, *Ain Shams Engineering Journal*, Vol. 5 (4), 2014, 1361-1369. DOI: 10.1016/j.asej.2014.07.005 ISSN: 2090-4479, **Scopus H index- 14, SNIP: 0.932, SJR: 0.43. Citations: 1** (Elsevier)
46. **M. C. Raju**, B.Vidyasagar, S. V. K. Varma, S.V. Ramana, Radiation absorption effect on MHD free convection chemically reacting visco-elastic fluid past an oscillatory vertical porous plate in slip regime, *International journal of Engineering and Computer science*, Vol. 3 (9), 2014, pp. 8212-8221. ISSN: 2319-7242.
47. B. Vidyasagar, **M. C. Raju**, S.V. K.Varma, S.V. Ramana, Unsteady MHD free convection boundary layer flow of radiation absorbing Kuvshinski fluid through porous medium, *Review of Advances in Physics Theories and Applications*, 2014, 1(3): 48-62. Online ISSN: 2409-3769 (Pak publishing group)
48. **M. C. Raju**, and S.V. K.Varma, Soret effects due to natural convection in a non-Newtonian fluid flow in porous medium with heat and mass transfer, *Journal of Naval architecture and Marine Engineering*, Vol. 11 (2), 2014, pp. 147-156. ISSN 1813-8535 (Print) 2070-8998 (Online). DOI: 10.3329/jname.v6i1.2654. **Scopus H Index-2.**
49. **M. C. RaJu**, S.V.K.Varma, B. Seshaiyah, Heat transfer effects on a viscous dissipative fluid flow past a vertical plate in the presence of induced magnetic field, *Ain Shams Engineering Journal*, Vol.6, No.1, 2015, 333-339. doi:10.1016/j.asej.2014.07.009, ISSN: 2090-4479, **Scopus H index- 14, SNIP: 0.932, SJR: 0.43.** (Elsevier)
50. B. Mamtha, **M. C. Raju**, S.V.K.Varma, Thermal diffusion effect on MHD mixed convection unsteady flow of a micro polar fluid past a semi-infinite vertical porous plate with radiation and mass transfer, *International Journal of Engineering Research in Africa*, Vol. 13 (2015) pp 21-37. ISSN: 16634144, 16633571; **Scopus H Index: 3 SJR:0.12, SNIP: 0.21.** (Trans Tech Publications, Switzerland)
51. B. Mamatha, S.V.K.Varma, **M. C. Raju**, Unsteady MHD mixed convection, radiative boundary layer flow of a micro polar fluid past a semi-infinite vertical porous plate with

- suction, *International Journal of Applied Science and Engineering*, 2015, 13,2: 133-146. ISSN: 1727-2394(P), 1727-7841(O).
52. S. Harinath Reddy, **M. C. Raju**, E. Keshava Reddy, 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 Vol. 14 (2015) pp. 13-27, Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/JERA.14.13*. ISSN: 16634144, 16633571; **Scopus H Index: 3**. (Trans Tech Publications, Switzerland).
 53. V. Ravikumar, **M.C. Raju**, G.S.S. Raju., Theoretical investigation of an unsteady MHD free convection heat and mass transfer flow of a non-Newtonian fluid flow past a permeable moving vertical plate in the presence of thermal diffusion and heat sink, *International Journal of Engineering Research in Africa Vol. 16(2015), 90-109, doi:10.4028/www.scientific.net/JERA.16.90*. ISSN: 16634144, 16633571; **Scopus H Index: 3**. (Trans Tech Publications, Switzerland).
 54. L. Harikrishna, M. Veerakrishna, **M.C. Raju**, Hall current effects on unsteady MHD flow in a rotating parallel plate channel bounded by porous bed on the lower half Darcy lap wood model, *Mathematical sciences International research journal*, Vol.4 (2015), 29-39. ISSN: 2278-8697.
 55. K. Nagamanemma, S. V. K. Varma, G. S. S. Raju, **M. C. Raju**, Unsteady MHD free convective Heat and Mass transfer flow near a Moving vertical porous plate with radiation & Thermo diffusion effects, *International Journal of Advanced Information Science and Technology*, Vol.38 (38), June 2015, 133-146. ISSN: 2319 – 2682, **IF: 5.032**. (Scientific Research Organization Publisher India)
 56. R. V. M. S. S. Kirankumar, A.G.Vijaykumar, **M. C. Raju**, and S. V. K. Varma, “Dufour effect on MHD free convection flow of chemically reactive and radiation absorption fluid past a vertical permeable moving plate with variable suction”. *Journal of Mathematical theory and modeling*. Vol.5, No.6, 2015, 143-160. ISSN 2224-5804(P), 2225-0522(O).
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 58. P. Chandrareddy, **M. C. Raju**, G. S. S. Raju, Magnetohydrodynamic Convective Double Diffusive Laminar Boundary Layer Flow Past an Accelerated Vertical Plate, *International Journal of Engineering Research in Africa*, Vol. 20 (2016), 80-92, doi:10.4028/www.scientific.net/JERA.20.80. ISSN: 1663 4144, 1663 3571; **Scopus H Index: 3**. (Trans Tech Publications, Switzerland).
 59. Chandra, R.P, **Raju, M.C**, Raju, G.S.S., (2015). Thermal and Solutal Buoyancy Effect on MHD Boundary Layer Flow of a Visco-Elastic Fluid Past a Porous Plate with Varying Suction and Heat Source in the Presence of Thermal Diffusion. *J Appl*

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60. Vidyasagar B, **Raju M.C.**, Varma S.V.K (2015) Unsteady MHD Free Convection Flow of a Viscous Dissipative Kuvshinski Fluid Past an Infinite Vertical Porous Plate in the Presence of Radiation, Thermal Diffusion and Chemical Effects. J Appl Computat Math 4:255. doi:10.4172/2168-9679.1000255. IF 0.58, ISSN: 2168-9679 (OMICS International, USA)
 61. **Raju M.C.**, Veeresh C, Varma S.V.K, Rushi Kumar B, Vijaya Kumar A.G (2015) Heat and Mass Transfer in MHD Mixed Convection Flow on a Moving Inclined Porous Plate. J Appl Computat Math 4: 259. doi:10.4172/2168- 9679.1000259. IF 0.58, ISSN: 2168-9679 (OMICS International, USA)
 62. D. Praveena, S. V. K. Varma, C. Veeresh and **M. C. Raju**, Unsteady Hydromagnetic Free Convective Heat Transfer Flow of Visco-Elastic Fluid through Porous Medium with Heat Source and Viscous Dissipation, International Journal of Mathematics and Computer Applications Research (IJMCAR), Vol. 5, Issue 6, Dec 2015, 1-16. ISSN (P): 2249-6955; ISSN(E): 2249- 8060.
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 65. Ananda Reddy. N, Vidya Sagar, **Raju. M. C**, Varma. S. V. K., Thermal and Solutal buoyancy effects on viscous dissipative and chemically reactive fluid flow past a uniformly moving plate with variable suction, International Journal of Innovative Technology and Exploring Engineering (IJITEE), Vol. 5 (7), 2015. ISSN: 2278-3075. IF:1.276 (Blue Eyes Intelligence Engineering & Sciences Publication Pvt. Ltd)
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Proceedings of the conference:

1. N. Ananda Reddy, S.Vijaya Kumar Varma and **M. C. Raju**, “Three dimensional MHD flow with heat and mass transfer through a porous medium with periodic permeability and chemical reaction”, *Proceedings of MARTEC 2010, The International Conference on Marine Technology 11-12 December 2010*, pp. 359-364 BUET, Dhaka, Bangladesh. ISSN: 2220 -3117
2. T.S.Reddy, **M. C. Raju**, S.V.K.Varma, “ Hall current effects on MHD free convection flow through a porous medium bounded by a vertical surface”, *Proceedings of the International Conference on Mathematics in Engineering & Business Management*, March 9-10, 188-192, 2012, Stella Maris college, Chennai. ISBN: 978-81-8286-015-5.
3. N.A.Reddy, T.S.Reddy, **M. C. Raju**, S.V.K.Varma, “ The effects of slip condition and chemical reaction on unsteady MHD periodic flow of a viscous fluid through saturated porous medium in a planner channel”, *Proceedings of the International Conference on Mathematics in Engineering & Business Management*, March 9-10, 216-220, 2012, Stella Maris college, Chennai. ISBN: 978-81-8286-015-5.

Books published:

1. MHD Fluid flow problems – A study of magnetic field effects on some flows in channels and past infinite plates, LAP Germany, 2012. ISBN: 987—3-8465-8815-4.
2. Effects of chemical reaction on two and three dimensional MHD flows, LAP, Germany, 2012, ISBN: 978-3-8484-8027-2.

Workshops attended:

1. Workshop on computational methods in science and engineering, 25-31, January 2007, Department of mathematics, C.V.Raman, College of Engineering, Bhubaneswar, Orissa, India.
2. TEQIP-II sponsored national workshop in “Recent trends in Fluid dynamics and Numerical Techniques”, 21-22 October 2016, Organized by JNTUA CEP, Pulivendula, India.

Conferences Organized:

1. National Conference on Recent developments in applications of Mathematics in Science & Engineering [RDAMSE-2015], 10 – 11 January 2015, partially funded by SERB, at AITS, Rajampet.

Chaired a session

1. National conference on recent developments in mathematics and its applications, Department of Mathematics, S.V. University, Tirupati, 29-01-2014.
2. II International conference on applications of fluid dynamics, Organized by Department of Mathematics, Sri Venkateswara University, Tirupati in association with University of Botswana, Gaborone, 21-23 July 2014.

Papers presented in Conferences :(National and International)

1. Study of free and forced convection flow in an inclined channel”, National conference on fluid mechanics- Its applications in science and Technology, 9-10 Feb, 2005, Osmania University Hyderabad.
2. Free and forced convection flows on vertical channel with asymmetric wall Temperature”, National conference on recent developments in applications of mathematics, 21-22 March, 2005, Department of Applied Mathematics, S.P.Mahila University, Tirupati.
3. MHD free and forced convection flow in an inclined Channel”, National conference on Mathematics and its applications, Dec-21-22, 2006, S.V.University, Tirupati.
4. MHD free convection flow of viscous fluid past a porous Inclined plate through non homogeneous porous medium with radiation and temperature gradient dependent heat source in slip flow regime”, National conference on Mathematics and its applications, Dec-21-22, 2006, S.V.University, Tirupati.
5. Soret effects due to natural convection between heated inclined plates with magnetic field”, National conference on Mathematics and its applications to engineering march 10-11, 2008, Vasavi College of engineering, Hyderabad.

6. MHD mixed thermal convective flow through a horizontal wavy channel maintained at non-uniform temperature”, National conference on Mathematics and its applications to engineering march 10-11, 2008, Vasavi College of engineering, Hyderabad.
7. Unsteady MHD free convection and mass transfer flow of dissipative fluid With heat generation and past an infinite vertical porous plate with homogeneous chemical reaction”, National conference on Mathematical Methods in science and technology, March 29-30, 2008, Sri PadmavatiMahilavisvaVidyalayam, Tirupati.
8. Thermo diffusion and chemical effects on MHD free convective Poiseuille flow through a porous medium bounded by two infinite vertical porous plates”, National conference on New trends in applied Mathematics, 9th&10th October 2010, Andhra University, Visakhapatnam, A.P, India.
9. Unsteady MHD free convection oscillatory Couette flow through a porous medium with periodic wall temperature”, National Conference on Advances in Mathematical Sciences" (NCAMS-1), March 28-29, 2011. S.V.University, Tirupati, A.P, India.
10. Heat transfer to MHD oscillatory flow in a channel filled with porous medium in the presence of chemical effect, National conference on applications of mathematics in Engineering sciences, 29-30, June 2011, Department of engineering mathematics, Andhra University, Visakhapatnam.
11. The effect of radiation and slip condition on unsteady MHD periodic flow of a viscous fluid through a saturated porous medium in a planer channel, National seminar on recent developments in mathematics, department of Mathematics, S.V.University, Tirupati. December 22-23, 2011.
12. Creating curiosity among engineering students towards higher mathematics course 46th Annual conference of the association of mathematics teachers of India, VidyaPratisthan, Baramati, , 27-29, December 2011.
13. MHD flow of a viscous electrically conducting fluid through a saturated porous medium, National seminar on recent trends in fluid mechanics, March 14-15, 2012, Department of mathematics, S.V.University, Tirupati.
14. Combined heat and mass transfer effects on MHD flow past an impulsively started vertical plate with variable temperature in porous medium, National seminar on mathematical modelling in fluid dynamics, 24th March 2012, Department of mathematics, S.V.University, Tirupati.
15. Chemical reaction and radiation effects on unsteady MHD periodic flow of a viscous fluid through saturated porous medium in a planer channel, National conference on applications of mathematics in engineering, physical and life sciences and XXI congress of APSMS, Department of Mathematics, S.V.University, Tirupati. December 7-9, 2012.
16. Attended an International conference Advances in nonlinear partial differential equations, Centre for applicable Mathematics, TIFR, Bangaluru, 18-20, June 2012.
17. Unsteady MHD free convective Visco-Elastic fluid flow in the presence of heat source, Viscous dissipation and Ohmic heating, National seminar on Advances in Fluid dynamics, Department of Mathematics, S.V.University, Tirupati. May 30, 2013.
18. Induced magnetic field effects on free convective flow of radiative dissipative fluid past a porous plate with temperature gradient heat source, National conference on recent

developments in mathematics and its applications, Department of Mathematics, S. V. University, Tirupati, 29-01-2014.

19. Hall current effects on unsteady magneto hydrodynamic boundary layer flow between stretching sheet and an oscillating porous upper parallel plate with constant suction, National seminar on emerging trends in Mathematics and its applications, March 6-7, 2014, Acharya Nagarjuna University, Ongole Campus, Ongole, A.P, India.
20. Radiation absorption effects on unsteady MHD free convective flow past an accelerated vertical plate with constant heat and mass flux, II International conference on applications of fluid dynamics, Organized by Department of Mathematics, Sri Venkateswara University, Tirupati in association with University of Botswana, Gaborone, 21-23 July 2014.
21. Unsteady MHD double diffusive convective Rivlin-Ericksen flow past a semi-infinite vertical moving porous plate, II International conference on applications of fluid dynamics, Organized by Department of Mathematics, Sri Venkateswara University, Tirupati in association with University of Botswana, Gaborone, 21-23 July 2014.
22. Radiation absorption effect on MHD free convection chemically reacting visco elastic fluid past an oscillatory vertical porous plate in slip flow regime, XXIII Congress of APSMS and National conference on Mathematics, 12-14 December 2014, Organized by department of Sciences & Humanities, Vignan's University, Guntur, A.P, India.
23. Analytical study of free convection flow past a periodically accelerated plate with Newtonian heating, UGC sponsored national conference on Women in Mathematics with special reference to Lilavati (NCWMSL – 2015), 7-8 March 2015, Department of Mathematics, SPW Degree and PG college Tirupati in collaboration with Department of Mathematics, S. V. University, Tirupati, A.P, INDIA.
24. Casson fluid flow and heat transfer past a vertical porous plate, UGC- Sponsored national seminar on Frontiers in Mathematics, 18-19, March 2015, Department of Applied Mathematics, Yogi Vemana University, Kadapa, A. P., and INDIA.

Additional duties

- **Chairman**, Board of Studies - Department of Humanities and Sciences- Annamacharya Institute of Technology and Sciences (Autonomous) Rajampet since 2011.
- **Ex-officio member** of Academic council of Annamacharya Institute of Technology and Sciences (Autonomous) Rajampet since 2011.
- In charge **Research & Development** cell, AITS, Rajampet 2013-14 & 2016 onwards.
- Member, UGC-Autonomous, **Internal Quality Assurance Cell**, AITS, Rajampet since 2014.

- **Additional officer** In charge of examinations, A.I.T.S, Rajampet from April 2003 to October 2008.
- **Co-Coordinator** of additional spot center of JNTU Anantapur at AITS Rajampet from 2003 to 2008.

Membership in professional societies

- Life member in Indian Mathematical Society, No. R-09-119
- Life member Association of Mathematics Teachers of India.
- Life Member of AP society of Mathematical sciences.
- Senior member of International Association of Computer Science and Information Technology (IACSIT), No. 80337820
- Member of International Association of Engineers (IAENG), No. 107172
- Fellow of International Society for Research and Development (ISRDI) since February 2017. Membership ID: F3140900527
- Editorial board member of Science Publishing group , American Journal of Nanoscience and Nanotechnology; ISSN:2331-0685 (Print) ISSN:2331-0693, (Online);
- Editorial board member of i-manager's Journal on Mathematics (JMAT) since 2015. ISSN Print: 2277-5129, ISSN Online: 2277-5137.
- Advisory Committee member, IICET, 2015 i-manager's International Conference on Engineering and Technologies. April 10-11, 2015; The Poovar Island Resorts, Trivandrum, Kerala, India.
- Editorial board member of “Heat and Mass transfer Research Journal” - Canadian Science Research group since 2016.
- Editorial Board Member in “World Journal of Engineering Research and Technology [WJERT]”, since 2016. ISSN 2454-695X.

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