

# PROFILE

Dr. B.Prabhakar M.Sc., NET., Ph.D.

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## Education

Ph.D during 2010-2017 from Osmania University Hyderabad.

M.Sc (Applied Mathematics) during 2004-2006 from University of Hyderabad, Hyderabad.

B.Sc (M.St.Cs) during 2001-2004 from Kakatiya University, Warangal.

## Achievements

CSIR-JRF (2009)

## Teaching Experience

Total Teaching experience : 10 yrs

U.G. Teaching : 10 yrs

## Research Grants:

**Science and Engineering Research Board-Teachers Associateship for Research Excellence)**

**SERB-TARE**

"Study of different thermo-physical effects on Prandtl-Eyring Nanofluid flow and heat transfer due to rotating disk", Sponsored by Science and Engineering Research Board, NEW DELHI, INDIA.(Grant Number: TAR/2020/000012), w.e.f. 01/12/2020.(Ongoing)

**Principal Investigator:** Dr. B.Prabhakar

**Mentor:** Dr.D.Srinivasacharya, Professor of Mathematics, NIT Warangal.

**Refresher course/ Orientation courses:**

Attended Online Refresher course in Mathematics from 16-03-2021 to 30-03-2021, Teaching Learning centre, Ramanujan College, University of Delhi.

Attended Orientation Programme, from 18-07-2017 to 14-08-2017 at UGC-Human Resource Development Centre, Maulana Azad National Urdu University, Hyderabad.

Attended Refresher Course “*Mathematical Modeling and Simulation for Scientists and Engineers*” from 02-12-2013 to 21-12-2013 at UGC-Academic Staff College, Jawaharlal Nehru Technological University, Hyderabad.

Attended Refresher Course in Mathematics from 13-09-2012 to 03-10-2012 at UGC-Academic Staff College, University of Hyderabad, Hyderabad.

**Faculty Improvement programmes:**

Attended UGC-HRDC-RUSA sponsored Faculty Improvement Programme “Online Short term course on Research process and Research design in Sciences” from 07-09-2020 to 12-09-2020 at UGC-Human Resource Development Centre, Osmania University, Hyderabad.

Attended One week online Faculty Improvement Programme Short term course on ICT Tools in Higher Education from 27-08-2020 to 02-09-2020 at UGC-Human Resource Development Centre, Osmania University, Hyderabad.

**Membership of Professional bodies, Societies etc.**

Lifetime member of Andhra Pradesh and Telangana Society for Mathematical Sciences (APTSMS).

**Seminars/Conferences/Work Shops attended**

Attended a five day national webinar on “*Fluid Dynamics from Mathematicians Viewpoint*” organized by Department of Mathematics, School of Science, GITAM (Deemed to be University), Hyderabad during 9 -13 August, 2020.

Attended Two day National workshop on “*Linear Algebra, Real Analysis and Algebra*” conducted by Department of Mathematics, Kakatiya University, Warangal during 28-29 September 2018.

Attended Two day National Seminar on “*Institutional Quality Improvement Role of Governance, Leadership and Management*” at S.R.R Govt. Arts & Science College, Karimnagar, from 1-2<sup>nd</sup> August 2014.

Attended “*Short Term Training Programme on Advanced Computational Mechanics*” (STTP on ACM) during 14<sup>th</sup> -18<sup>th</sup> July 2014 organized by Department of Applied Mathematics, Defence Institute of Advanced Technology, Pune.

Attended 3-day District level training programme on “*A foundation course in Human values and Professional Ethics*”, at S.R.R Govt. Degree & P.G College, Karimnagar, from 15-07-2013 to 17-07-2013.

Attended “*National Conference on Applications of Mathematics in Engineering and Industry (NCAMEI-2013)*” organized by Department of Mathematics, Kakatiya University, Warangal during March 26-28, 2013.

Attended State Level Workshop for The Mathematics Lecturers, Organised by Andhra Pradesh State Council of Science and Technology during 22-23 February 2013 at Hyderabad.

Attended 6-day residential Induction training Programme conducted for newly recruited lecturers at District resource centre, Kakatiya Government college, Hanamkonda, Warangal from 26-12-2011 to 31-12-2011.

Attended International Workshop on “*Advances in Computational Partial Differential Equations*” (ACPDE-2011) from 7-02-2011 to 05-03-2011 at BITS-Goa.

Attended “*Short Term Training Programme on Mathematical Modeling and Numerical Techniques (STTP on MMNT)*”, NIT Warangal, Telangana.

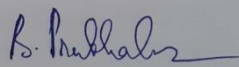
### **Papers Published In Journals**

- [1]. Impact of Activation Energy in Darcy-Forchheimer Flow of Cross Nanofluid over a Radial Stretching Surface with Viscous Dissipation and Joule Heating, International Journal of Heat and Technology, Vol. 39, No. 5, October, 2021, pp. 1557-1566.
- [2]. Darcy-Forchheimer Flow of MHD Powell-Eyring Nanoliquid over a Nonlinear Radially Stretching Disk with the Impact of Activation Energy, Discontinuity, Nonlinearity and Complexity, 10(4) (2021) 743-753.
- [3]. Heat transfer analysis of inclined magnetic field and activation energy in Maxwell nanofluid with thermophoresis effects, Heat Transfer, <https://doi.org/10.1002/hjt.21958>, 50(2) : 1836-1852(2021).

- [4]. A revised model to analyze MHD flow of Maxwell nanofluid past a stretching sheet with nonlinear thermal radiation effect, *International Journal of Fluid Mechanic Research*, 46(2):151-165 (2019). ISSN: Print: 2152-5102,Online:2152-5110.
- [5]. Thermal radiation and slip effects on stagnation point flow of MHD non-Newtonian nanofluid over a convective stretching surface. *Neural Computing and Applications*, Springer. DOI 10.1007/s00521-017-2992-x, vol 31(1), pp 207-21(2019).
- [6]. Impact of inclined Lorentz forces on tangent hyperbolic nanofluid flow with zero normal flux of nanoparticles at the stretching sheet, *Neural Computing and Applications*, DOI 10.1007/s00521016-2601-4, Vol. 29(10), pp 805-814(2018).
- [7]. Effects of inclined magnetic field and chemical reaction on flow of a Casson nanofluid with second order velocity slip and thermal slip over an exponentially stretching sheet, *International Journal of Applied and Computational Mathematics* (Springer), 3(4), 2967-2985(2017).
- [8]. Mixed Convection Flow of Thermally Stratified MHD Nanofluid over an Exponentially Stretching Surface with Viscous Dissipation Effect, *Journal of Taiwan Institute of Chemical Engineers, Elsevier. Volume 71, February 2017, Pages 307-314*.
- [9]. MHD Stagnation Point Flow of a Casson Nanofluid towards a Radially Stretching Disk with Convective Boundary Condition in the Presence of Heat Source/Sink, *Journal of Nanofluids*, 679-686 (2016).
- [10]. Mixed Convection MHD Flow of a Casson Nanofluid over a Nonlinear Permeable Stretching Sheet with Viscous Dissipation, *Journal of Applied Mathematics and Physics*, 2015, 3, 1580-1593.

## Declaration

I declare that the particulars furnished above are true to the best of my knowledge and belief.



**(Dr.B.Prabhakar)**