

## **CURRICULUM-VITAE**

<b>Name</b>	: Dr. Roopa G. S	
<b>Date of Birth</b>	: 07/12/1983	
<b>Husband Name</b>	: Hemesha H. N	
<b>Highest Qualifications</b>	: Ph.D.	
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### **Academic Performance:**

<b>Qualifications</b>	<b>Board / IIT / University</b>	<b>Institute</b>	<b>Year of passing</b>
UG Degree B. Sc. (PMCs)	Kuvempu University, Shivamogga	Sahyadri Science College, Shivamogga	2004
B.Ed (PM)	Mysore University	Vivekananda College of Education, Arsikere	2006
PG Degree M. Sc. (Mathematics)	Kuvempu University, Shivamogga	Dept of P.G. Studies & Research in Mathematics, Kuvempu University, Shivamogga	2008
Ph. D.	Kuvempu University, Shivamogga	Dept of P.G. Studies & Research in Mathematics, Kuvempu University, Shivamogga	2014

#### **RESEARCH PROJECTS 01 (Completed) :**

I have been Appointed as project assistant for Department of Science and Technology (DST) New Delhi, major research project entitled “Unsteady Flow and Heat Transfer of a Dusty Fluid” (2009).

**Ph.D. Title:** A Study on Flow and Heat Transfer of a Dusty Fluid.

**Research Area:** Fluid Mechanics, heat transfer, nanofluid.

## **CAREER PROFILE:**

<b>Name of the College</b>	<b>Duration</b>	<b>Months/Years</b>	<b>Designation</b>
Dept of P.G. Studies & Research in Mathematics, Kuvempu University	2009 to 2012	3	Research scholar (worked as lecture also for PG)
Govt. Science College, Hassan	July 2013 to Nov 2013	0.5	Guest Lecture
Bahubali College of Engineering, Shravanabelagola	July 2016 to till August 2018	2	AssistantProfessor
Malnad College of Engineering, Hassan	21 <sup>st</sup> August 2018 to till date		AssistantProfessor

## **Research Publications:**

1. W. Jamshed, G.K. Ramesh, **G.S. Roopa**, K.S. Nisar, Rabia Safdar, J.K. Madhukesh, Faisal Shahzad, Siti Suzilliana Putri Mohamed Isa, B. Shankar Goud, “Mohamed R Eid, electromagnetic radiation and convective slippery stipulation influence in viscous second grade nanofluid through penetrable material”, ZAMM (Zeitschrift fur Angewandte Mathematik und Mechanik-Journal of Applied mathematics and mechanics), (2022), Pp. 1521-4001, <https://doi.org/10.1002/zamm.202200002>, ISSN:1521-4001. IF: 2.3 (SCI/Scopus/Q2)
2. J. K. Madhukesh, G. K. Ramesh, **G.S. Roopa**, B. C. Prasannakumara, Nehad Ali Shah And Se-Jin Yook, “3D flow of hybrid nanomaterial through a circular cylinder: Saddle and Nodal Point Aspects”, Mathematics, Vol.10(7), (2022), Pp. 1185, <https://doi.org/10.3390/math10071185>, ISSN:2227-7390. IF: 2.3 (SCI/Scopus/Q2)
3. G.K. Ramesh, S. Manjunatha, **G.S. Roopa**, Ali J. Chamkha, “Hybrid (ND-Co<sub>3</sub>O<sub>4</sub>/EG) nanoliquid through a permeable cylinder under homogeneous-heterogeneous reactions and slip effects”, Journal of Thermal Analysis and Calorimetry, Vol. 146, (2021), Pp. 1347-1357, <https://doi.org/10.1007/s10973-020-10106-1>, ISSN: 1388-6150. IF: 4.4, (SCI/Scopus/Q2)
4. G.K. Ramesh, J.K. Madhukesh, B.C. Prasannakumara, **G.S. Roopa**, “Significance of aluminium alloys particle flow through a parallel plates with activation energy and chemical reaction”, Journal of Thermal Analysis and Calorimetry, Vol. 147, (2022), Pp. 6971-6981, <https://doi.org/10.1007/s10973-021-10981-2>, ISSN: 1388-6150. IF: 4.4, (SCI/Scopus/Q2)

5. G.K. Ramesh, **G.S. Roopa**, A. Rauf, S.A. Shehzad, F.M. Abbasi, "Time-dependent squeezing flow of Casson-micropolar nanofluid with injection/suction and slip effects", *International Communications in Heat and Mass Transfer*, Vol. 126, (2021), Pp. 105470, <https://doi.org/10.1016/j.icheatmasstransfer.2021.105470>, ISSN: 1879-0178. IF: 7.0, (SCI/Scopus/Q1)
6. G.K. Ramesh, **G.S. Roopa**, Sabir Ali. Shehzad, S.U. Khan, "Interaction of Al<sub>2</sub>O<sub>3</sub>-Ag and Al<sub>2</sub>O<sub>3</sub>-Cu hybrid nanoparticles with water on convectively heated moving material", *Multidiscipline Modeling in Materials and Structures*, Vol. 16(6), (2020), Pp. 1651-1667. <https://doi.org/10.1108/MMMS-11-2019-0191>, ISSN: 1573-6105. IF: 2.655, (SCI/Scopus/Q3)
7. Younghae Do, G.K. Ramesh, **G.S. Roopa**, M. Sankar, "Navier's slip condition on time dependent Darcy-Forchheimer nanofluid using spectral relaxation method", *Journal of Central South University*, Vol. 26(7), (2019), Pp. 2000-2010. <https://doi.org/10.1007/s11771-019-4147-y>, ISSN: 2227-5223. IF: 2.392, (SCI/Scopus/Q1)
8. G.K. Ramesh, **G.S. Roopa**, B.J. Gireesha, Sabir Ali Shehzad, F.M. Abbasi, "An electromagneto-hydrodynamic flow Maxwell nanoliquid past a Riga plate: A numerical study, *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, Vol. 39, (2017), Pp. 4547-4554, <https://doi.org/10.1007/s40430-017-0900-z>, ISSN: 1678-5878. IF: 2.2, (SCI/Scopus/Q2).
9. G.S. Roopa, B.J. Gireesha & C.S. Bagewadi, "Numerical investigation of mixed convection boundary layer flow of a dusty fluid over an vertical surface with radiation" *Afrika Matematika* (Springer publications), Vol. 24, (2013) Pp. 487-502. <https://doi.org/10.1007/s13370-012-0074-x>, ISSN: 1012-9405. IF: 1.13 (SCI/Scopus/Q2).
10. B.J. Gireesha, G.S. Roopa & C.S. Bagewadi, "Effect of viscous dissipation and heat source on flow and heat transfer of dusty fluid over unsteady stretching sheet" *Applied Mathematics and Mechanics* (English Edition) (Springer publications)' Vol. 33(8), (2012). Pp. 1001-1014. <https://doi.org/10.1007/s10483-012-1601-9>, ISSN: 0253-4827. IF: 4.4 (SCI/Scopus/Q1).
11. B.J. Gireesha, G.S. Roopa, H.J. Lokesh and C.S. Bagewadi, "MHD Flow and Heat Transfer of a Dusty Fluid over a Stretching Sheet," *International Journal of Physical and Mathematical Sciences*, Vol. 3(1), (2012) Pp. 171-182. (ISSN: 2010-1791).
12. C.S. Bagewadi, B.J. Gireesha, Mahesha and G.S. Roopa, "Effect of Radiation on Hydromagnetic flow and Heat Transfer of a Dusty fluid between Two Parallel plates," *International Journal of Physical and Mathematical Sciences*, Vol. 3(1), (2012) Pp. 47-65. (ISSN: 2010-1791).

13. G.S.Roopa, B.J.Gireesha & C.S.Bagewadi, "Hydromagnetic flow and Heat Transfer of a dusty Fluid over a vertical stretching surface" 'Accepted in Australian Journal of Basic and Applied Sciences' (2011). (ISSN: 1991-8178).
14. G.S.Roopa, B.J.Gireesha & C.S.Bagewadi, "Effect of viscous dissipation on MHD flow and heat transfer of a dusty fluid over an unsteady stretching sheet", International Journal of Mathematical Archive, Vol. 2(11), (2011) Pp. 2229-2240. <http://www.ijma.info/index.php/ijma/article/view/687/371>, (ISSN: 2229-5046).
15. G.S.Roopa, B.J.Gireesha and C.S.Bagewadi, "Unsteady Flow and Heat Transfer of a Dusty Fluid between Two Parallel Plates," International Journal of Computational Science and Mathematics, Vol. 3(4), (2011) Pp. 421-433. (ISSN: 0974-3189)
16. B.J.Gireesha, G.S.Roopa and C.S.Bagewadi, "Boundary Layer Flow of an Unsteady Dusty Fluid and Heat Transfer over a Stretching Sheet with non-uniform Heat Source/Sink," Engineering (Scientific Research), Vol. 3(7), (2011) Pp.726-735. IF: 0.66 (ISSN: 1947-3931).
17. B.J.Gireesha, G.S.Roopa and C.S.Bagewadi, "Unsteady Flow and Heat Transfer of a Dusty Fluid through a Rectangular Channel", Mathematical Problems in Engineering (Hindawi Publishing Corporation), Vol. 2010, (2010) 17 pages. <https://doi.org/10.1155/2010/898720>, IF:1.43 (ISSN: 1563-5147). (SCI/Scopus/Q2).

## **Workshop Conducted**

- One day workshop on "Application of Mathematics in Real World Problems" organised by Malnad College of Engineering, Hassan under TEQIP-III on 13/11/2019.
- One day workshop on "Programming in Python" held on 10<sup>th</sup> December 2022, organised by department of mathematics, Malnad College of Engineering, Hassan.

## **Details of Attended/Presented in National/ International workshops/seminars/ conferences:**

1. Five days online FDP On "Advanced and Technical Computing with MATLAB" held on 25 to 29<sup>th</sup> July 2023, organized by Department of Mathematics, School of Engineering, Presidency University, Bangalore.
2. Online Two-Week Refresher course on "Python and Vedic Mathematics" held on 13<sup>th</sup> to 26<sup>th</sup> July, 2023 organised by Teaching Learning Centre & Department of Mathematics, Ramanujan College, University of Delhi.
3. One day workshop on "Programming in Python" held on 10<sup>th</sup> December 2022, organised by department of mathematics, Malnad College of Engineering, Hassan.

4. Online Two-Week Refresher course in “Mathematical Sciences” from 26<sup>th</sup> September to 10<sup>th</sup> October, 2022 and obtained by Grade A+ organized by Teaching Learning Centre, Ramanujan College, University of Delhi.
5. One week FDP on ‘Outcome Based Education’, held on 19<sup>th</sup> to 23<sup>rd</sup> September-2022, organized by Department of Civil, Mechanical and Electrical & Electronic Engineering Malnad College of Engineering, Hassan.
6. One week FDP on “Current Trends In Manufacturing” held on 13<sup>th</sup> to 17<sup>th</sup> June 2022 organized by Department of Mechanical Engineering and IQAC SJMIT during at S. J. M. Institute of Technology, Chitradurga.
7. One day National conference on “Recent Trends in Applied Science” held on 8<sup>th</sup> June 2022 organized by Department of Basic Science, PES Institute of Technology and management, Shivamogga. **Paper Presented:** Bioconvective nanofluid flow over an exponential stretched sheet with thermophoretic particle deposition.
8. Three day 27<sup>th</sup> International conference of international academy of physical sciences (CONIAPS XXVII) on “Fluid Mechanics and Industrial Applications” held on 26 to 28<sup>th</sup> October 2021, organized by Dept. Of P.G studies and Research Mathematics, Kuvempu University and International Academy of Physical Sciences.
9. Three day online FDP on “Symposium on Engineering Mathematics with MATLAB” held on 6<sup>th</sup> to 8<sup>th</sup> September 2021, organized by IUCEE foundation, RV College of Engineering and Math works India Private Ltd.
10. Two day workshop on “Introduction to the Culture of Innovation” held on 19<sup>th</sup> and 20<sup>th</sup> July 2021, organized by Atal incubation centre at Malnad College of Engineering, Hassan.
11. One week online FDP on “Sci-Lab, Maxima and python” held on 17<sup>th</sup> to 21<sup>st</sup> August 2020 organized by Department of Mathematics and Department Of Computer Science, P.C.JABIN Science College, Hubballi.
12. Five days Webinar series on ‘Research and Innovation’, held on 17<sup>th</sup> to 21<sup>st</sup> August 2020, organized by Department of Information Science and Engineering, Vidyavardhaka College of Engineering, Mysore.
13. Four days “National webinar on fluid mechanics and its applications in engineering science” held on 24<sup>th</sup> to 27<sup>th</sup> June 2020, organized by Department of Mathematics, PES Institute of Technology and management, Shivamogga.
14. Completed Six months IUCEE International Engineering Educator Certificate Program spring 2020.

15. One day workshop on “Application of Mathematics in Real World Problems” held on 13<sup>th</sup> November 2019, jointly organised by Department of Mathematics and Department of E & E Engineering, Malnad College of Engineering, Hassan under TEQIP-III.
16. Participated in ‘**FEEL Teacher-Developing, Counselling, Mentoring**’ Learning and **Development Intervention**, held on 2<sup>nd</sup> November 2019, organized by Malnad College of Engineering, and conducted by College for Leadership and HRD, Mangaluru, at MCE Hassan.
- 17.
18. One day workshop on ‘New model curriculum for First year BE/B.Tech-CBCS detailed syllabus (2018-19) as per outcome-based education (OBE) format including course outcomes (CO) and Bloom’s Taxonomy’ under TEQIP-1.3 held on 19<sup>th</sup> May 2018 organized by VTU at Sahyadri College of Engineering and Management, Mangalore.
19. Faculty Development Program on Latex’ held on 28<sup>th</sup> and 29<sup>th</sup> July 2016 organized by Department of Computer Science and Information Science Engineering, Bahubali College of Engineering, Shravanabelagola.
20. National conference on Mathematical Sciences and Applications’ held on 9<sup>th</sup> March, 2013 organized by Department of Mathematics, Govt. First Grade College, Koppa.  
**Paper Presented:** Effect of radiation and heat source/sink on unsteady stagnation point flow and heat transfer of a dusty fluid.
21. Two days Maths Fest-2013, held on 22<sup>nd</sup> and 23<sup>rd</sup> February 2013, organized by Department of Post graduate Studies and Research in Mathematics, Kuvempu University, Shankarghatta, SHIVAMOGGA.
22. ‘National conference on Recent Developments in Mathematics’ held on 4<sup>th</sup> and 5<sup>th</sup> May 2012 organized by Department of Mathematics, Kuvempu University, SHIVAMOGGA.  
**Paper Presented:** Effect of thermal radiation and heat source on heat transfer of a dusty fluid over an unsteady stretching surface embedded in a porous medium.

23. State Level Seminar on 'Ramanujan - The man and Mathematician, Mathematical Modelling and Fibonacci Sequences' under UGC-CPE Scheme, held on 12th March 2012 organized by Department of Mathematics, Sahyadri Science College (Autonomous), SHIVAMOGGA.
24. Prepared model in 'Kuvempu University Silver Jubilee Exhibition' held on 16 to 19th 2012, organized by Committee for Popularization of Science Education, Kuvempu University, Shankaraghatta.
25. 'International conference on Fluid Dynamics and its Applications' held on 20 to 22<sup>nd</sup> July 2011 organized by Department of Mathematics, B.N.M. Institute of Technology, BANGALORE, **Paper Presented:** Effects of viscous dissipation and heat source on flow and heat transfer of a dusty fluid over an unsteady stretching sheet.
26. '3rd Annual conference of The Tensor Society on Differential Geometry and its applications' held on 27-28<sup>th</sup> May 2011 at Kuvempu University, SHIVAMOGGA.
27. National Workshop on "Analytical and Numerical solutions of non-linear Differential equations", held on 18 and 19<sup>th</sup> March 2011, organized by Department of Mathematics, Amrita School of Engineering, BANGALORE.
28. II National Conference on 'Emerging Trends in Fluid Mechanics and Graph Theory' held on 11 and 12<sup>th</sup> February 2011 at Christ University, Bangalore.  
**Paper Presented:** Effects of viscous dissipation and heat source on flow and heat transfer of a dusty fluid over an unsteady stretching sheet.
29. '12<sup>th</sup> International conference of International Academy of Physical science on Emerging Interfaces of Physical Sciences' held on Dec 22-24, 2010 at JAIPUR.  
**Paper Presented:** Unsteady flow and heat transfer of a dusty fluid between two parallel plates.
30. Eight Days Instructional Workshop on 'UGC-NET/SLET Examination in Mathematics', held on 26 to 30<sup>th</sup> December 2009, organized by Department of Mathematics, Kuvempu University, SHIVAMOGGA.
31. National meet of Research Scholars in mathematical Sciences' held on 11 to 15<sup>th</sup> October 2010 at Department of Mathematics, IIT, Madras.  
**Paper Presented:** Flow and heat transfer of a dusty fluid between two rotating circular cylinders.
32. State Level Seminar on "Mathematical Modelling in Biomedical Engineering, Recent advances in Complex Analysis, Differential Equations and its applications", held on 31<sup>st</sup>

- March 2010, Department of Mathematics, Sahyadri Science College (Autonomous), SHIVAMOGGA.
33. Two Days Workshop on 'The Vision Group of Mathematics and Computer Science', held on 19-20 March 2010, organized by Department of Mathematics, Kuvempu University, SHIVAMOGGA.
  34. Five Days Instructional Workshop on 'Linear Algebra and its Engineering Applications', held on 26-30 December 2009, organized by Department of Computer Science, Kuvempu University, SHIVAMOGGA.
  35. One Day Symposium on "Ramanujan's Mathematics (Series-II)", held on 15th June 2009, organized by Department of Mathematics, Bangalore University, BANGALORE.
  36. 'Special Lecture Series in Mathematics', held on 30<sup>th</sup> March to 1<sup>st</sup> April 2009, Sponsored by Karnataka Science and Technology Academy, Government of Karnataka, organized by Department of Mathematics, Kuvempu University, SHIVAMOGGA.
  37. State Level Conference on 'Recent Trends in Mathematics', held on 12<sup>th</sup> March 2009, organized by Department of Mathematics, Sahyadri Science College (Autonomous), SHIVAMOGGA.
  38. State Level Two days Seminar on 'New Vistas in the Teaching-Learning of Communicative English', held on 26<sup>th</sup> to 27<sup>th</sup> September 2008, Sponsored by U.G.C, organized by Sri Mahaveera First Grade College, Moodbidri, D.K.
  39. One Day Seminar on 'Recent Trends in Mathematics', held on 05th May 2008 organized by Department of Mathematics, Kuvempu University, SHIVAMOGGA.
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