

# CURRICULUM-VITAE



NAME : **Dr.B.J.Gireesha**

OBJECTIVE : Teaching /Research

POSTAL ADDRESS : Department of Mathematics,  
Kuvempu University  
Jnana Sahyadri-577 451, SHIMOGA.  
Karnataka, India  
Ph.: (Off) 08282-257310, (Res) 256277,  
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NATIONALITY : INDIAN

DATE OF BIRTH : June 1<sup>st</sup> 1974

MARITAL STATUS : Married

EDUCATIONAL QUALIFICATION : **M.Sc., (1997) M.Phil., (1999)**  
**Ph.D., (2003) P.D.F., (2015)**

AREA OF THE RESEARCH WORK : Computational Fluid Dynamics,  
Two-phase Flows, heat and Mass Transfer  
Newtonian/non-Newtonian fluid flows,  
stretching sheet problems.

RESEARCH EXPERIENCE : From September 2002 to till date

TEACHING EXPERIENCE : From September 2006 to till date

MEMBER FOR PROFESSIONAL BODIES : 04

- (1) Member in Indian Academy of Mathematics, INDORE.
- (2) World Enformatica Society.
- (3) Member in Journal Ganita, Bharata Ganita Parisad, Lucknow.
- (4) Bulletin of Culcutta Mathematical Society, Kolkata.

**AWARDS and RECOGNITIONS:**

- Prestigious “RAMAN FELLOWSHIP-2015” for Post Doctoral Research for Indian Scholar in USA.

**MEMBERSHIP IN EDITORIAL BOARDS : 11**

- (1) Journal of Nanofluids, California 91381, USA.
- (2) Journal Applied Fluid Mechanics, Iran.
- (3) Asian Journal of Mathematics and Statistics, Academic Journals USA.
- (4) Journal Trends in Applied Sciences Research, Academic Journals USA.
- (5) Expert Committee Member for DST.
- (6) Journal of Modeling, Measurement & Control, FRANCE.
- (7) International Electronics Engineering Mathematical Society, EGYPT.
- (8) Computer & Mathematics with Applications From Elsevier Publications.
- (9) Asian Journal of Advanced Research and Reports.
- (10) International Journal of Mathematical Physics.
- (11) International Journal of Engineering and Technologies.

**SUBJECTS TAUGHT AT PG LEVEL :** Differential Equations, Numerical Analysis, Fluid Mechanics, Finite Element Methods, Complex Analysis, Measure Theory, Pascal Programming, C-Programming, Computer Oriented Numerical Methods, Computer oriented Probability & Statistical Methods and Mathematical Physics.

**COMPUTER LITERACY :** FORTRAN, Pascal, C, C++, LaTeX, Win Edit, MS Office, Microcal Origin, Matlab, Mathematica and Maple.

**PROFESSIONAL REVIEWING SERVICES FOR:**

- (1) Nonlinear Engineering Modeling and Application (DE GRUYTER).
- (2) Journal of Computational Design and Engineering.

- (3) International Journal of Hydrogen Energy.
- (4) AIP Advances.
- (5) Journal of the Nigerian Mathematical Society (Elsevier).
- (6) Journal of Nanofluids (American Scientific Publishers).
- (7) Mathematical Problems in Engineering.
- (8) Thermal Science.
- (9) International Journal of Heat and Mass Transfer (IJHMT).
- (10) Journal of Heat and Mass Transfer (Elsevier).
- (11) International Journal of Engineering Science and Technology(IJEST).
- (12) Journal of Applied Fluid Mechanics (JAFM).
- (13) Walailak Journal of Science and Technology (WJST).
- (14) Zeitschrift fuer Naturforschung A (ZNA) Journal.
- (15) PLOS ONE Journal.
- (16) International Journal of Industrial Mathematics.
- (17) Journal of Aerospace Engineering.
- (18) Propulsion and Power Research (Elsevier).
- (19) Scientia Iranica Journal.
- (20) Journal of Thermophysics and Heat Transfer (Elsevier).
- (21) British Journal of Mathematics and Computer Science.
- (22) Asian Research Journal of Mathematics.
- (23) International Journal of Numerical Methods for Heat and Fluid Flow (Emerald).
- (24) International Journal of Physical Sciences.
- (25) Computational Thermal Sciences.
- (26) Archives of Current Research International.
- (27) American Chemical Science Journal.
- (28) Journal of Magnetism and Magnetic Materials (Elsevier).
- (29) International Journal of Heat and Mass Transfer (Elsevier).
- (30) Asian Journal of Mathematics and Computer Research.
- (31) Journal of Basic and Applied Research international.
- (32) Engineering Applications of Computational Fluid Mechanics.
- (33) Applied Mathematics and Mechanics (English Edition).
- (34) Chinese Journal of Aeronautics.
- (35) Physical Science International Journal.
- (36) Journal of Applied Physical Science International.

- (37) Applied Mathematics and Computation (Elsevier).
- (38) Science Domain International.
- (39) International Journal of Applied and Computational Mathematics. (Springer)
- (40) Advanced Powder Technology
- (41) Journal of Nanomaterials, Nanoengineering and Nanosystems
- (42) Transactions of A. Razmadze Mathematical Institute
- (43) Journal of Molecular Liquids
- (44) Journal of Porous Media
- (45) Chaos, Solitons and Fractals
- (46) International Journal of Fluid Mechanics Research (Begell House)
- (47) Journal of Process Mechanical Engineering
- (48) Chinese Journal of Physics
- (49) International Journal of Engineering and Technologies
- (50) Results in Physics (Elsevier)
- (51) International Journal of Thermal Sciences
- (52) Informatics in Medicine Unlocked
- (53) Thermal Science and Engineering Applications
- (54) Chemical Engineering Science
- (55) Colloid and Polymer Science
- (56) Special issue 2 of Defect and Diffusion

**RESEARCH SUPERVISION :**

01	Students Awarded Ph.D., degree	: 17
02	Students working for Ph.D., degree	: 07
03	Students working as P.D.F.	: 01
04	Students Awarded M.Phil., degree	: 06
05	Guidance for M.Sc Dissertation Work	: 39 batch
06	Guidance for M.Tech Dissertation Work	: 05

**STUDENTS WORKING FOR Ph.D., DEGREE**

Sl. No.	Name of the Candidate	Title of the Thesis	Year
01	Umeshaiyah M.	: A numerical approach to study flow and heat transfer of non-Newtonian fluid with suspended particles	2015
02	Shashikumar N. S.	: Heat transfer and fluid flow characteristics in microchannels	2016
03	Sowmya G	: Heat transfer analysis in different fins structures in the presence of nanofluids	2017
04	Roja A	: Flow and heat transfer analysis of nanofluids in Microchannel	2017
05	Sindhu S	: Non-Newtonian fluid flow, heat and mass transfer analysis through Microchannel	2017
06	Dhanalakshmi R	: Numerical solutions of boundary layer flow and heat transfer of Newtonian fluid suspended with CNT	2017
06	Nagaraja B	: Newtonian/non-Newtonian fluid flow and heat transfer analysis through a Stretching sheet	2018

**RESEARCH PROJECTS 04**

Sl.No.		Title	Organization	Amount
1	Major	Unsteady flow and heat transfer of a dusty fluid ( <b>Completed</b> )	DST	Rs. 09,34,340.00
2	Major	Study on Boundary Layer Flow of an Unsteady Dusty Fluid	UGC	Rs. 07,35,800.00
3	Minor	Mathematical Modelling of conducting dusty fluid in Frenet frame field system	UGC	Rs. Rs. 38,000.00
4	Major	Numerical Investigation on boundary layer flow of fluid particle suspension and heat transfer over a stretching/shrinking sheet ( <b>On going</b> )	UGC	Rs. Rs. 1125000.00

**EDITED VOLUMES 03**

- (1) Co-Editor for Proceedings of International conference on Analysis, Manifolds, Fluid Mechanics and their Applications, Published in 2002 by Prasaranga, Kuvempu University.
- (2) Editor for Proceedings of National conference on Geometry, Analysis, Fluid Mechanics and Computer Applications, Published in 2004 by Dept. of Mathematics, Kuvempu University.
- (3) Co-Editor for Proceedings of International conference on Differential Geometry, Analysis and Fluid Mechanics, Published in 2016 by Dept. of Mathematics, Kuvempu University.

**BOOKS:**

- (1) "Thermal Conductivity in the Boundary Layer of Non-Newtonian Fluid with Particle Suspension" (Book Chapter), Impact of Thermal Conductivity on Energy Technologies, (2018) DOI: 10.5772/intechopen.76345.
- (2) "Nonlinear Radiative Heat Transfer of Cu-Water Nanoparticles over an Unsteady Rotating Flow under the Influence of Particle Shape" (Book Chapter), Impact of Thermal Conductivity on Energy Technologies, (2018) DOI: 10.5772/intechopen.74807
- (3) Convection Flow over a Stretching Sheet with Fluid Particle Suspension (Published by LAMBERT Academic Publishing) 2016.
- (4) Advanced Differential Equations (Published by STUDERRA press, New Delhi) 2016.
- (5) "Stagnation-point flow of a magneto nanoliquid over a melting stretching sheet with an induced magnetic field" (Book Chapter), VIJNANA BHARATHI-The Frontier Journal in SCIENCE, Vol. 1, Issue 2 (2016) pp. 39-54.
- (6) Slip Flow and Melting Heat Transfer of Non-Newtonian Nanofluid (Published by LAMBERT Academic Publishing) 2015.
- (7) Power (of) Knowledge: Mathematics (Collection of Famous Articles) - An introduction to Mathematical Modelling (Book Chapter) (Article - 8, Page No: 168-183, Published by Prasaranga Kuvempu university) 2014.
- (8) Mathematical Modelling (Published by KSOU, Mysore) 2013.
- (9) Numerical Analysis (Published by DEC Kuvempu University, Shimoga) 2003.
- (10) Differential Equations (Published by DEC Kuvempu University, Shimoga) 2002.

**PUBLICATIONS IN JOURNALS:**

- (1) K.Ganeshkumar, S.Manjunatha, **B.J.Gireesha**, F.M.Abbasi, & , S.A.Shehzad, “Numerical illustrations of 3D tangent hyperbolic liquid flow past a bi-directional moving sheet with convective heat transfer at the boundary”, Accepted in Heat Transfer - Asian Research, (2019).
- (2) H.J.Lokesh, **B.J.Gireesha**, & K.Ganeshkumar, “Characterization of Chemical Reaction on Magnetohydrodynamics Flow and Nonlinear Radiative Heat Transfer of Casson Nanoparticles Over an Exponentially Sheet”, Journal of Nanofluids (American Scientific Publishers), Vol. 8 No.6, (2019) pp. 1260-1266 (IF- 0.9).
- (3) B.A.Kuttan, S.Manjunatha, S.Jayanthi, **B.J.Gireesha**, & M.Archana, “Effect of Variable Viscosity on Marangoni Convective Boundary Layer Flow of Nanofluid in the Presence of Mixed Convection”, Journal of Nanofluids (American Scientific Publishers), Vol. 8 No.4, (2019) pp. 845-851 (IF- 0.9).
- (4) C.T.Srinivasa, J.K.Singh, **B.J.Gireesha**, & M.Archana, “Heat and Mass Transfer Analysis of Casson Nanofluid Flow Past a Static/Moving Vertical Plate with Heat Radiation”, Journal of Nanofluids (American Scientific Publishers), Vol. 8 No.3, (2019) pp. 543-549 (IF- 0.9).
- (5) C.T.Srinivasa, J.K.Singh, **B.J.Gireesha**, & M.Archana, “Effect of Variable Fluid Properties on Magnetohydrodynamic Flow of Nanofluid Past a Flat Plate”, Journal of Nanofluids (American Scientific Publishers), Vol. 8 No.3, (2019) pp. 520-525 (IF- 0.9).
- (6) N.S.Shashikumar, B.C.Prasannakumara, M.Archana, & **B.J.Gireesha**, “Thermodynamics analysis of a Casson nanofluid flow through a porous microchannel in the presence of hydrodynamic slip : A model of solar radiation”, Journal of Nanofluids (American Scientific Publishers), Vol. 8 No.1, (2019) pp. 63-72 (IF- 0.9).
- (7) **B.J.Gireesha**, M.Archana, B.Mahanthesh, & B.C.Prasannakumara, “Exploration of activation energy and binary chemical reaction effects on nano Casson fluid flow with thermal and exponential space-based heat source”, Multidiscipline Modeling in Materials and Structures (Emerald Insight), Vol. 15 No. 1, (2019) pp. 227-245 (IF- 0.567).
- (8) **B.J.Gireesha**, M.R.Krishnamurthy, & K.Ganeshkumar, “Nonlinear Radiative Heat Transfer and Boundary Layer Flow of Maxwell Nanofluid Past Stretching Sheet”,

- Journal of Nanofluids (American Scientific Publishers), Vol. 8 No.5, (2019) pp. 1093-1102 (IF- 0.9) .
- (9) **B.J.Gireesha**, K.Ganesh Kumar, & S.Manjunatha, “Impact of chemical reaction on MHD 3D flow of a nanofluid containing Gyrotactic microorganisms in the presence of uniform heat source/sink”, International Journal of Chemical Reactor Engineering (De Gruyter), Vol. 16 No.12, (2018) DOI:<https://doi.org/10.1515/ijcre-2018-0013> (IF- 0.623) .
- (10) M.Archana, **B.J.Gireesha**, B.C.Prasannakumara, & M.M.Rashidi, “Bidirectionally stretched flow of Jeffrey liquid with nanoparticles, Rosseland radiation and variable thermal conductivity”, Archives of Thermodynamics (De Gruyter), Vol. 39 No. 4, (2018) pp. 33-57 (IF- 0.598) .
- (11) O.D.Makinde, B.C.Kumar, G.K.Ramesh, & B.J.G, “Simultaneous convection of Carreau fluid with radiation past a convectively heated moving plate”, Defect and Diffusion Forum (Trans Tech), Vol. 389 (2018) pp. 60-70 (IF- 0.248) .
- (12) K.Ganesh Kumar, G.K.Ramesh, **B.J.Gireesha**, & R.S.R.Gorla, “Characteristics of Joule heating and viscous dissipation on three-dimensional flow of Oldroyd B nanofluid with thermal radiation”, Alexandria Eng. J.(Elsevier), Vol. 57 No.3, (2018), pp. 2139-2149.
- (13) G.K.Ramesh, K.Ganesh Kumar, **B.J.Gireesha**, S.A.Shehzad, & F.M.Abbasi, “Magnetohydrodynamic nanoliquid due to unsteady contracting cylinder with uniform heat generation/absorption and convective condition”, Alexandria Engineering Journal (Elsevier), (2018) <https://doi.org/10.1016/j.aej.2017.12.009>.
- (14) **B.J.Gireesha**, B.Mahanthesh, & K.L.Krupalakshmi, “Numerical Investigation of Two-Phase Mixed Convection Flow of Particulate Oldroyd-B Fluid with Non-Linear Thermal Radiation and Convective Boundary Condition”, Defect and Diffusion Forum (Trans Tech), Vol. 388 (2018) pp. 204-222 (IF- 0.248) .
- (15) Sampath Kumar, P.Borappa, B.Mahanthesh, **B.J.Gireesha**, & S.Manjunatha, “Mixed Convection 3D Radiating Flow and Mass Transfer of Eyring-Powell Nanofluid with Convective Boundary Condition”, Defect and Diffusion Forum (Trans Tech), Vol. 388 (2018) pp. 158-170 (IF- 0.248) .
- (16) B.Mahanthesh, **B.J.Gireesha**, G.T.Thammanna, S.A.Shehzad, F.M.Abbasi, & R.S.R.Gorla, “Nonlinear convection in nano Maxwell fluid with nonlinear thermal radiation: A three-dimensional study”, Alexandria Engineering Journal (Elsevier), Vol. 57 No. 3 (2018) pp. 1927-1935.

- (17) **B.J.Gireesha**, K.Ganesh Kumar, N.G.Rudraswamy, & S.Manjunatha, “Effect of Viscous Dissipation on Three Dimensional Flow of a Nanofluid by Considering a Gyrotactic Microorganism in the Presence of Convective Condition”, Defect and Diffusion Forum (Trans Tech), Vol. 388 (2018) pp. 114-123 (IF- 0.248).
- (18) B.Mahanthesh, & **B.J.Gireesha**, “Dual Solutions for Unsteady Stagnation-Point Flow of Prandtl Nanofluid Past a Stretching/shrinking Plate”, Defect and Diffusion Forum (Trans Tech), Vol. 388 (2018) pp. 124-134 (IF- 0.248).
- (19) **B.J.Gireesha**, B.Mahanthesh, O.D.Makinde, & T.Muhammad, “Effects of Hall Current on Transient Flow of Dusty Fluid with Nonlinear Radiation Past a Convectively Heated Stretching Plate”, Defect and Diffusion Forum (Trans Tech), Vol. 387 (2018) pp. 352-363 (IF- 0.248).
- (20) P.R.Athira, B.Mahanthesh, **B.J.Gireesha**, & O.D.Makinde, “Non-Linear Convection in Chemically Reacting Fluid with an Induced Magnetic Field across a Vertical Porous Plate in the Presence of Heat Source/Sink”, Defect and Diffusion Forum (Trans Tech), Vol. 387 (2018) pp. 428-441 (IF- 0.248).
- (21) B.Mahanthesh, O.D.Makinde, **B.J.Gireesha**, K.L.Krupalakshmi, & I.L.Animasaun, “Two-Phase Flow of Dusty Casson Fluid with Cattaneo-Christov Heat Flux and Heat Source Past a Cone, Wedge and Plate”, Defect and Diffusion Forum (Trans Tech), Vol. 387 (2018) pp. 625-639 (IF- 0.248).
- (22) R.Mohapatra, B.Mahanthesh, **B.J.Gireesha**, & S.R.Mishra, “Exploration of Chemical Reaction Effects on Entropy Generation in Heat and Mass Transfer of Magneto-Jeffery Liquid”, International Journal of Chemical Reactor Engineering (De Gruyter), Vol 16 No. 9, (2018) <https://doi.org/10.1515/ijcre-2018-0005> (IF- 0.623).
- (23) B.Mahanthesh, S.Manjunatha, **B.J.Gireesha**, & B.A.Kuttan, “Heat and mass transfer effects on non-newtonian fluid flow over an unsteady stretching surface with viscous dissipation and thermal radiation”, JP Journal of Heat and Mass Transfer, Vol 15 No. 2, (2018) pp.309-330 (IF- 1.09).
- (24) **B.J.Gireesha**, K.Ganesh Kumar, & B.C. Prasannakumar, “Scrutinization of Chemical Reaction Effect on Flow and Mass Transfer of Prandtl Liquid over a Riga Plate in the Presence of Solutal Slip Effect”, International Journal of Chemical Reactor Engineering (De Gruyter), Vol.16 No.8 (2018) <https://doi.org/10.1515/ijcre-2018-0009> (IF- 0.623)
- (25) N.S.Shashikumar, **B.J.Gireesha**, B.Mahanthesh, B.C.Prasannakumara, & Ali Chamkha, “Entropy generation analysis of magneto-nanoliquids embedded with aluminium and

- titanium alloy nanoparticles in microchannel with partial slips and convective conditions”, *International Journal of Numerical Methods for Heat and Fluid Flow* (Emerald), (2018) <https://doi.org/10.1108/HFF-06-2018-0301> (IF- 1.173).
- (26) P.B Sampath Kumar, B.Mahanthesh, **B.J.Gireesha**, & S.A.Shehzad “Quadratic convective flow of radiated nano-Jeffrey liquid subject to multiple convective conditions and Cattaneo-Christov double diffusion”, *Applied Mathematics and Mechanics*(Springer), Vol.39 No.9, (2018) pp. 1311-1326 (IF- 1.205).
- (27) **B.J.Gireesha**, K.Ganesh Kumar, M.R.Krishnamurthy, & N.G.Rudraswamy “Enhancement of heat transfer in an unsteady rotating flow for the aqueous suspensions of single wall nanotubes under nonlinear thermal radiation: a numerical study”, *Colloid and Polymer Science*, Vol.296 No.9, (2018) pp. 1501-1508 (IF- 1.967).
- (28) **B.J.Gireesha**, M.R.Krishnamurthy, B.C.Prasannakumara, & R.S.R.Gorla “MHD flow and nonlinear radiative heat transfer of Casson nanofluid past a nonlinearly stretching sheet in the presence of chemical reaction”, *Nanoscience and Technology: An International Journal*, Vol 9 Issue 3, (2018) pp. 207-229.
- (29) M.Archana, M.G.Reddy, **B.J.Gireesha**, B.C.Prasannakumara, & S.Shehzad, “Triple diffusive flow of nanofluid with buoyancy forces and nonlinear thermal radiation over a horizontal plate”, *Heat Transfer - Asian Research*, (2018) pp. 1-17, DOI: 10.1002/htj.21360.
- (30) M.R.Krishnamurthy, K.Ganesh Kumar, **B.J.Gireesha**, & N.G.Rudraswamy “MHD Flow and Heat Transfer of Non-Newtonian Nanofluids Over a Nonlinear Stretching Sheet”, *Journal of Computational and Theoretical Nanoscience* (American Scientific Publishers), Vol 15, (2018) pp. 1452-1460.
- (31) K.Ganesh Kumar, G.K.Ramesh, & **B.J.Gireesha**, “Thermal analysis of generalized Burgers nanofluid over a stretching sheet with nonlinear radiation and non uniform heat source/sink”, *Archives of Thermodynamics* (De Gruyter), Vol. 39 No.2, (2018), pp.97-122 (IF- 0.598).
- (32) B.Mahanthesh, **B.J.Gireesha**, M.Sheikholeslami, S.A.Shehzad, & P.B.S.Kumar “Non-linear Radiative Flow of Casson Nanoliquid Past a Cone and Wedge with Magnetic Dipole: Mathematical Model of Renewable Energy”, *Journal of Nanofluids* (American Scientific Publishers), Vol. 7 No. 6, (2018) pp. 1089-1100 (IF- 0.9).
- (33) C.S.K.Raju, M.M.Hoque, P.Priyadharshini, B.Mahanthesh, & **B.J.Gireesha** “Cross diffusion effects on magnetohydrodynamic slip flow of Carreau liquid over a slendering sheet with non-uniform heat source/sink”, *Journal of the Brazilian Society of*

- Mechanical Sciences and Engineering (Springer), Vol. 40 No. 4, (2018) pp. 1-13 (IF- 1.235).
- (34) B.Mahanthesh, **B.J.Gireesha**, G.T.Thammanna, T.Hayat, & A.Alsaedi “Magneto-hydrodynamic squeezing two-phase flow of particulate suspension in a rotating channel with transpiration cooling”, Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science (SAGE Publications), (2018)  
<https://doi.org/10.1177/0954406218771725> (IF- 0.996).
- (35) O.D.Makinde, B.Mahanthesh, **B.J.Gireesha**, N.S.Shashikumar, R.L.Monaledi, & M.S. Tshehla “MHD Nanofluid Flow Past a Rotating Disk with Thermal Radiation in the Presence of Aluminum and Titanium Alloy Nanoparticles”, Defect and Diffusion Forum (Trans Tech), Vol. 384 (2018) pp. 69-79 (IF- 0.248).
- (36) K.Ganesh Kumar, **B.J.Gireesha**, & S.Manjunatha “Scrutinization of Joule Heating and Viscous Dissipation on MHD Flow and Melting Heat Transfer Over a Stretching Sheet”, International Journal of Applied Mechanics and Engineering (De Gruyter), Vol. 23 No. 2, (2018) pp. 429-433 (IF- 0.063).
- (37) **B.J.Gireesha**, K.Ganesh Kumar, G.K.Ramesh, & B.C.Prasannakumara “Nonlinear convective heat and mass transfer of Oldroyd-B nanofluid over a stretching sheet in the presence of uniform heat source/sink”, Results in Physics (Elsevier), Vol. 9, (2018) pp. 1555-1563 (IF- 0.946).
- (38) **B.J.Gireesha**, R.S.R.Gorla, M.R.Krishnamurthy, & B.C.Prasannakumara “Biot number effect on MHD flow and heat transfer of nanofluid with suspended dust particles in the presence of nonlinear thermal radiation and non-uniform heat source/sink”, Acta et Commentationes Universitatis Tartuensis de Mathematica, Vol. 22 No. 1, (2018) pp. 91-114.
- (39) B.Mahanthesh, **B.J.Gireesha**, & I.L.Animasaun “Exploration of Non-Linear Thermal Radiation and Suspended Nanoparticles Effects on Mixed Convection Boundary Layer Flow of Nanoliquids on a Melting Vertical Surface”, Journal of Nanofluids (American Scientific Publishers), Vol. 7 No. 5, (2018) pp. 833-843 (IF- 0.9).
- (40) K.Ganesh Kumar, **B.J.Gireesha**, & R.S.R.Gorla “Flow and heat transfer of dusty hyperbolic tangent fluid over a stretching sheet in the presence of thermal radiation and magnetic field”, International Journal of Mechanical and Materials Engineering (Springer), Vol. 13 No. 1, (2018) pp. 2-11 (IF- 0.49).

- (41) K.Ganesh Kumar, **B.J.Gireesha**, G.K.Ramesh, & N.G.Rudraswamy “Double-Diffusive Free Convective Flow of Maxwell Nanofluid Past a Stretching Sheet with Nonlinear Thermal Radiation”, *Journal of Nanofluids* (American Scientific Publishers), Vol. 7 No. 3, (2018) pp. 499-508 (IF- 0.9).
- (42) M.R.Krishnamurthy, K.Ganesh Kumar, **B.J.Gireesha**, & N.G.Rudraswamy “MHD Flow and Heat Transfer (PST and PHF) of Dusty Fluid Suspended with Alumina Nanoparticles Over a Stretching Sheet Embedded in a Porous Medium Under the Influence of Thermal Radiation”, *Journal of Nanofluids* (American Scientific Publishers), Vol. 7 No. 3, (2018) pp. 527-535 (IF- 0.9).
- (43) N.S.Shashikumar, **B.J.Gireesha**, B.Mahanthesh, & B.C.Prasannakumara “Brinkman-Forchheimer flow of SWCNT and MWCNT magneto-nanofluids in a microchannel with multiple slips and Joule heating aspects”, *Multidiscipline Modeling in Materials and Structures* (Emerald Insight), (2018) <https://doi.org/10.1108/MMMS-01-2018-0005> (IF- 0.567).
- (44) N.S.Shashikumar, B.C.Prasannakumara, **B.J.Gireesha**, & O.D.Makinde “Thermodynamics Analysis of MHD Casson Fluid Slip Flow in a Porous Microchannel with Thermal Radiation”, *Diffusion Foundations*, Vol. 16, (2018) pp. 120-139.
- (45) B.Mahanthesh, **B.J.Gireesha**, N.S.Shashikumar, & T.Hayat, “Marangoni convection in Casson liquid flow due to an infinite disk with exponential space dependent heat source and cross-diffusion effects”, *Results in Physics* (Elsevier), Vol.9, (2018) pp.78-85 (IF- 0.946).
- (46) B.Mahanthesh, **B.J.Gireesha**, M.Archana, T.Hayat, & A.Alsaedi, “Variable viscosity effects on third-grade liquid flow in post-treatment analysis of wire coating in the presence of nanoparticles”, *International Journal of Numerical Methods for Heat and Fluid Flow* (Emerald), Vol. 28 No. 10 (2018) pp. 2423-2441 (IF- 1.173).
- (47) **B.J.Gireesha**, B.Mahanthesh, G.T.Thammanna, & P.B.Sampath Kumar, “Hall effects on dusty nanofluid two-phase transient flow past a stretching sheet using KVL model”, *Journal of Molecular Liquids* (Elsevier), Vol. 256 (2018) pp. 139-147 (IF- 4.513).
- (48) B.Mahanthesh, **B.J.Gireesha**, S.A.Shehzad, A.Rauf, & P.B.Sampath Kumar, “Non-linear radiated MHD flow of nanofluids due to a rotating disk with irregular heat source and heat flux condition”, *Physica B: Condensed Matter* (Elsevier), Vol. 537, (2018) pp. 98-104 (IF- 1.386).

- (49) **B.J.Gireesha**, P.B.Sampath Kumar, B.Mahanthesh, S.A.Shehzad, & F.M.Abbasi, “Nonlinear gravitational and radiation aspects in nanoliquid with exponential space dependent heat source and variable viscosity”, *Microgravity Science and Technology* (Springer), Vol. 30 No. 3, (2018) pp 257-264 (IF- 1.188).
- (50) B.Mahanthesh, & **B.J.Gireesha**, “Scrutinization of thermal radiation, viscous dissipation and Joule heating effects on Marangoni convective two-phase flow of Casson fluid with fluid-particle suspension”, *Results in Physics* (Elsevier), Vol. 8 (2018) pp. 869-878 (IF- 0.946).
- (51) B.Mahanthesh, & **B.J.Gireesha**, “Thermal Marangoni convection in two-phase flow of dusty Casson fluid”, *Results in Physics* (Elsevier), Vol. 8, (2018) pp. 537-544 (IF- 0.946).
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- (221) K.R.Madhura, **B.J.Gireesha** & C.S.Bagewadi, “Pulsatile flow of a dusty fluid through a porous media in an open rectangular channel”, International Journal of Mathematics & Computation, Vol. 5, No. 9, (2009) pp. 61-73.
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- ALE Universitatii AL.I Cuza (S.N) MATHEMATICA, Vol. Tomul LV, no. f.2, (2009) pp. 445-454 (IF- 0.110).
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- (224) **B.J.Gireesha**, P.Venkatesha & C. S. Bagewadi, "Flow of an unsteady conducting dusty fluid through circular cylinder", Acta Universitatis Apulensis, Vol. 17, (2009) pp. 77-86.
- (225) **B.J.Gireesha**, C.S.Bagewadi & B.C.Prasannakumara, "Pulsatile flow of an unsteady dusty fluid through rectangular channel", Communication in Nonlinear Science & Numerical Simulation (Elsevier), Vol. 14, (2009) pp. 2103-2110 (IF- 2.784).
- (226) B.C.Prasannakumara, C.S.Bagewadi & **B.J.Gireesha**, "Transition motion of an unsteady dusty fluid through an open rectangular channel", Analele Universitatii Oradea Fasc. Matematica, Vol. Tom. XVI, (2009) pp. 267-285.
- (227) **B.J.Gireesha**, C.S.Bagewadi & C.S.Vishalakshi, "Beltrami flow of an unsteady dusty fluid between parallel plates in anholonomic co-ordinate system", Electronic Journal of Theoretical Physics (EJTP), Vol. 5, No. 17, (2008) pp. 181-192.
- (228) **B.J.Gireesha**, C.S.Bagewadi, P.Venkatesha & B.C.Prasannakumara "Unsteady flow of a conducting dusty fluid near an accelerated plate", Acta Universitatis Apulensis, No. 16, (2008) pp. 103-116.
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- (230) **B.J.Gireesha**, C.S.Bagewadi & B.C.Prasannakumara, "Flow of unsteady dusty fluid under varying linear pressure gradient", Journal of Indian Academy of Mathematics, Vol. 30 No. 1, (2008) pp. 83-91.
- (231) **B.J.Gireesha**, C.S.Bagewadi & B.C.Prasannakumara, "Unsteady dusty fluid flow through Rectangular Channel", Pacific-Asian Journal of Mathematics, Vol. 1, No. 2, (2007) pp. 81-89.
- (232) N.T.Sushma, Shilpa Desai, M.S.Varsha, **B.J.Gireesha** & C.S.Bagewadi, "Unsteady flow of dusty fluid between two oscillating plates under varying linear pressure gradient", AMSE Modelling B, Vol. 72, No. 2, (2007) pp. 01-10.

- (233) S.Rashmi, V.Kavitha, B.Saba Roohi, Gurumurthy, **B.J.Gireesha** & C.S.Bagewadi, “Unsteady flow of a dusty fluid between two oscillating plates under varying constant pressure gradient”, *Novi Sad Journal of Mathematics (NSJOM)*, Vol. 37, No. 2, (2007) pp. 25-34.
- (234) **B.J.Gireesha**, C.S.Bagewadi & B.C.Prasannakumara, “Flow of unsteady dusty fluid between two parallel plates under Constant pressure gradient”, *Tensor. N. S.*, Vol. 68, No. 1, (2007) pp. 119-124.
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- (237) **B.J.Gireesha**, C.S.Bagewadi & B.C.Prasannakumara, “Flow of unsteady dusty fluid under varying pulsatile pressure gradient in anholonomic co-ordinate system”, *Electronic Journal of Theoretical Physics (EJTP)*, Vol. 4, No. 14, (2007) pp. 9-16.
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- (240) **B.J.Gireesha**, C.S.Bagewadi & K.R.Madhura, “Pulsatile flow of unsteady dusty fluid through porous media in anholonomic co-ordinate system”, *Proceedings of the Jangjeon Mathematical Society (Jangjeon Research Institute for Mathematical Sciences and Physics)*, Vol. 10, No. 2, (2007) pp. 173-183.
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- (244) Siddabasappa, C.S.Bagewadi, & **B.J.Gireesha**, “Solutions with orthogonal velocity and magnetic fields”, AMSE Modelling B, Vol. 75, No. 3, (2006) pp. 65-75.
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- (247) Siddabasappa, C.S.Bagewadi, B.P.Mallikarjunaswamy & **B.J.Gireesha**, “A Study of MGD flow using differential geometry techniques”, ANIJMIT, Vol. 3, (2006) pp. 01-13.
- (248) **B.J.Gireesha**, C.S.Bagewadi & Mahesha, “Unsteady flow and heat transfer of a dusty fluid between two infinite parallel plates”, Kuvempu University Science Journal, Vol. 3, No. 1, (2006) pp. 145-158.
- (249) C.S.Bagewadi & **B.J.Gireesha**, “A Study of two dimensional unsteady dusty fluid flow under varying temperature”, International Journal of Applied Mechanics & Engineering, Vol. 9, No. 4, (2004) pp. 647-653.
- (250) **B.J.Gireesha** & C.S.Bagewadi, “A Study of two dimensional dusty fluid flow under transverse magnetic field”, Ganita, Vol. 54, No. 2, (2003) pp. 189-202,
- (251) C.S.Bagewadi & **B.J.Gireesha**, “A Study of two dimensional steady dusty fluid flow under varying pressure gradient”, Tensor.N.S., Vol. 64, (2003) pp. 232-240.

#### **PUBLICATIONS IN CONFERENCE PROCEEDINGS:**

- (252) **B.J.Gireesha**, K.Ganeshkumar, N.G.Rudraswamy, & M.R.Krishnamurthy, “Three dimensional flow and heat transfer of a Jeffrey nanofluid with uniform heat source/sink”, UGC sponsored Nat. Seminar Recent Advances in Nanoscience and Nanotechnology, Febraury, Pp.10-12, ISBN 978-1539580201 (2016), Hassan.
- (253) **B.J.Gireesha**, B.C.Prasannakumara, M.R.Krishnamurthy, K.Ganesh Kumar, & M.Umeshaiiah, “Suspended particle effect on heat and mass transfer of micropolar fluid over a stretching sheet in the presence of thermal radiation”, UGC sponsored Nat. Seminar Recent Advances in Nanoscience and Nanotechnology, Febraury, Pp.13-15, ISBN 978-1539580201 (2016), Hassan.

- (254) **B.J.Gireesha**, K.Ganeshkumar, B.C.Prasannakumara, M.R.Krishnamurthy, & N.G.Rudraswamy, “Effect of nonlinear thermal radiation on Williamson Dusty fluid over a stretching sheet in the presence of magnetic field”, Proceedings of the National workshop on Partial Differential Equations and Numerical Methods in Fluid Dynamics, pp. 67-86, March (2016), GFGC Koppa.
- (255) M.R.Krishnamurthy, **B.J.Gireesha**, B.C.Prasannakumara, Rama Subba Reddy Gorla, K.Ganeshkumar, & N.G.Rudraswamy, “Slip flow and nonlinear radiative heat transfer on nanofluid past an unsteady stretching sheet with chemical reaction and non-uniform heat source/sink”, Proceedings of the National workshop on Partial Differential Equations and Numerical Methods in Fluid Dynamics, pp. 87-107, March (2016), GFGC Koppa.
- (256) B.Mahanthesh, P.B.Sampath Kumar, & **B.J.Gireesha**, “MHD flow and heat transfer of a dusty viscoelastic fluid past a two vertical porous plates with fluid-particle suspension”, Proceedings of the National workshop on Partial Differential Equations and Numerical Methods in Fluid Dynamics, pp. 126-140, March (2016), GFGC Koppa.
- (257) B.Mahanthesh, & **B.J.Gireesha**, “Heat and mass transfer effects on non-newtonian fluid flow due to stretching surface”, Proceedings of the National workshop on Partial Differential Equations and Numerical Methods in Fluid Dynamics, pp. 182-193, March (2016), GFGC Koppa.
- (258) S. Manjunatha, **B.J.Gireesha** & B. C. Prasannakumara, and C. S. Bagewadi, “Boundary layer flow and heat transfer of dusty fluid over a stretching sheet with non-uniform heat source and radiation”, Proceedings of NCPAM 2014, Pp.1-15, ISBN 978-81-926808-4-2 (2014), Sahyadri Science College, Shimoga.
- (259) G. K.Ramesh, & **B.J.Gireesha**, “The effect of heat source/sink on convection flow of dusty fluid past a stretching surface”, Proceedings of NCPAM 2014, Pp.16-29, ISBN 978-81-926808-4-2 (2014), Sahyadri Science College, Shimoga.
- (260) B. Mahanthesh, K. L. Krupa Lakshmi & **B.J.Gireesha** “Hydrodynamic slip flow and heat transfer of a radiating viscoelastic fluid past a vertical channel with fluid-particle suspension”, Proceedings of NCPAM 2014, Pp.42-57, ISBN 978-81-926808-4-2 (2014), Sahyadri Science College, Shimoga.
- (261) B. Mahanthesh, & **B.J.Gireesha** “Similarity solutions of non-Newtonian fluid flow, heat and mass transfer over a non-isothermal porous stretching surface”, Proceedings

- of NCPAM 2014, Pp.60-75, ISBN 978-81-926808-4-2 (2014), Sahyadri Science College, Shimoga.
- (262) **B.J.Gireesha** & G.K.Ramesh, “Magnetichydrodynamic free convection flow of a dusty fluid over an inclined stretching sheet with radiation effect”, UGC sponsored Nat. Conf. Geometry, Analysis and Fluid Mechanics, September, Pp.117-130, (2013), Koppa.
- (263) N.G.Rudraswamy & **B.J.Gireesha**, “Numerical studies on heat and mass transfer of a nanofluid over an exponential stretching sheet with Brownian motion and thermophoretic effects”, UGC sponsored Nat. Conf. Geometry, Analysis and Fluid Mechanics, September, Pp.164-171, (2013), Koppa.
- (264) B.Mahanthesh & **B.J.Gireesha**, “Peristaltic flow of Prandtl fluid through a porous medium in an inclined symmetric channel”, UGC sponsored Nat. Conf. Geometry, Analysis and Fluid Mechanics, September, Pp.172-181, (2013), Koppa.
- (265) **B.J.Gireesha**, G.M.Pavithra & C.S.Bagewadi, “Hydromagnetic dusty fluid flow due to an exponential stretching sheet in the presence of viscous dissipation”, Proc. Nat. conf. on Geometry, Algebra, logic and Num. Theory, Appl., pp.150-163, (2012), TUMKUR.
- (266) **B.J.Gireesha**, C.S.Bagewadi, B.C.Prasannakumara & Siddabasappa, “Flow of unsteady dusty fluid between two parallel plates”, Proc. Rec. Dev. Math., Pp.57-65, (2007), BANGALORE.
- (267) C.S.Bagewadi, A.N.Shantharajappa, **B.J.Gireesha** & Siddabasappa, “Solutions of one-dimensional dust phase and three-dimensional fluid phase flow of a dusty gas in Frenet frame field system”, Proc. Rec. Dev. Math., pp.115-123, (2007), BANGALORE.
- (268) **B.J.Gireesha**, C.S.Bagewadi & B.C.Prasannakumara, “Unsteady dusty fluid flow between two oscillating plates with different period”, Proc. Nat. Conf. on GAMCA, pp.111-116, (2004), SHIMOGA.
- (269) **B.J.Gireesha**, C.S.Bagewadi & B.C.Prasannakumara, “Flow of unsteady dusty fluid under varying linear pressure gradient”, Proc. Nat. Conf. on GAMCA, pp. 61-66, (2004), SHIMOGA.
- (270) G.M.Lingaraju, C.S.Bagewadi, D.L.Prabhakar & **B.J.Gireesha**, “Finite element formulation for flexible pipes conveying fluid”, Proc. Nat. Conf. on GAMCA, Pp.206-211, (2004), SHIMOGA.

- (271) C.S.Bagewadi & **B.J.Giresha**, “Two dimensional steady dusty gas flow in Frenet frame field system”, Proc. Int. Symposium on Analysis Manifolds and Mechanics, (2003), KOLKATA.

## **PAPERS COMMUNICATED: 10**

### **CITATION DETAILS:**

Number of Citations	:	<b>3017</b>
h-index	:	<b>28</b>
i-10 index	:	<b>98</b>
Scopus cited Documents	:	<b>151</b>

## **CONFERENCES/SEMINARS/SYMPOSIUM ORGANIZED:**

- (1) Science Academies’ Lecture Workshop on ‘Computational Fluid Dynamics’ held on 21<sup>st</sup> and 22<sup>nd</sup> October 2016, Department of P.G Studies and Research in Mathematics, Kuvempu University, Shankaraghatta.
- (2) “International Conference on Differential Geometry, Analysis And Fluid Mechanics (ICDGAFM - 2016)” held on 4<sup>th</sup> and 5<sup>th</sup> February 2016, Department of P.G Studies and Research in Mathematics, Kuvempu University, Shankaraghatta.
- (3) National conference on ‘Developments and Opportunities in Civil Engineering Applied Sciences and Mechanical Engineering’ held on 18<sup>th</sup> and 19<sup>th</sup> May 2012 in the Department of Mathematics and information Science, East West institute of technology, Bangalore.
- (4) The National Conference on ‘Recent developments in Mathematics’ to be held on 4<sup>th</sup> and 5<sup>th</sup> May 2012 organized by Department of Mathematics, Kuvempu University, SHIMOGA.
- (5) Seminar for Syndicate Members of all universities of Karnataka State held during 12-13<sup>th</sup> January 2012.
- (6) National Conference on ‘Emerging trends in information technology and Mathematics’ held on 3<sup>rd</sup> and 4<sup>th</sup> November 2011 organized by Department of Mathematics and information Science, East West institute of technology, Bangalore.
- (7) The 3rd Annual Conference of THE TENSOR SOCIETY on ‘Differential Geometry and its Applications’ held on 27<sup>th</sup> and 28<sup>th</sup> May, 2011 organized by Department of Mathematics, Kuvempu University, SHIMOGA.

- (8) Two days workshop on ‘The Vision Group of Mathematics & Computer Science’ during 19<sup>th</sup> -20<sup>th</sup> March 2010.
- (9) Workshop on ‘Higher mathematics’ sponsored by Dept. of Science & Tech., Govt. of Karnataka, Organized by Department of Mathematics, Kuvempu University, SHIMOGA, During 30, 31 March & 1 April 2009.
- (10) National Conference on ‘Recent Trends in Mathematics’ held during 05<sup>th</sup> May 2008, Organized by Department of Mathematics, Kuvempu University, SHIMOGA.
- (11) National Conference on ‘Geometry, Analysis, Mechanics and Computer Applications’ held during 09-11<sup>th</sup> December 2004 sponsored by Kuvempu University, CSIR/UGC and DST.
- (12) International Conference on ‘Geometry, Analysis and Fluid Mechanics and their Applications’ held on 15-17<sup>th</sup> Jan 2000, sponsored by Kuvempu University, CSIR/UGC and DST.

#### **CONFERENCES/SEMINARS/SYMPIOSIUM ATTENDED/PRESENTED:**

- (1) Participated in UGC sponsored Short Term Course on ‘e-Learning and ICT for Teaching and Learning’ organized by Jawaharlal Nehru Technological University Hyderabad from 30<sup>th</sup> July to 4<sup>th</sup> August 2018.
- (2) Participated in UGC sponsored Short Term Course on ‘Communication Skills and Computer Applications’ organized by Bangalore University from 27<sup>th</sup> February to 4<sup>th</sup> March 2017.
- (3) “Facts and applications of Mathematics” at the one day state level seminar on “Applied Mathematics, Linear Algebra and its Applications”, held at Department of Mathematics, Sahyadri Science College (Autonomous), Shimoga on 14<sup>th</sup> september 2013.
- (4) “Three Dimensional MHD Couette Flow and Heat Transfer in a Dusty Liquid With Differential Suction/Injection”, presented in the International Conference of Jangjeon Mathematical Society (South Korea) in association with Acharya Institute of Graduate Studies, Bangalore on 1-4<sup>th</sup> of August 2013.
- (5) “ Three dimensional Couette flow of an unsteady dusty fluid and heat transfer” presented in international conference on Mathematics held on 9-10<sup>th</sup> of August 2013 in Kerala.
- (6) “ Stagnation point flow of a MHD dusty fluid towards a stretching sheet with radiation” presented at GFGC, Koppa, held on 9<sup>th</sup> March 2013.

- (7) “Three-Dimensional Couette flow of an unsteady dusty fluid and heat transfer through a porous medium”, Presented at National Conference on ‘Recent Developments in Mathematics’ held on 4-5<sup>th</sup> May 2012 organized by Department of Mathematics, Kuvempu University, Shankaraghatta.
- (8) “Prepared a model in Kuvempu University Silver jubilee Exhibition”, held on 16-19<sup>th</sup> Feb 2012 organized by Committee for Popularization of Science Education, Kuvempu University, Shankaraghatta.
- (9) “MHD free convection flow of a dusty fluid over an inclined stretching sheet with radiation effect”, Presented at the 14th International Conference (CONIAPS XIV) on ‘Physical Sciences Interference With Humanity’ held on 22-24<sup>th</sup> Dec 2011 organized by Sardar Vallabhbhai National Institute of Technology, Surat.
- (10) Attended 3rd Annual Conference of “The Tensor Society on Differential Geometry and its Applications” organized by the Department of Mathematics, Kuvempu University, held on 27 -28<sup>th</sup> May 2011.
- (11) Attended two day workshop on preparation of “Self Instructional Material” organized by the director of distance Education, Kuvempu University in collaboration with the DEC of IGNOU, New Delhi, held on 23 -24<sup>th</sup> April 2011.
- (12) “Three-Dimensional Couette Flow of a Dusty Fluid with Heat Transfer”, Presented at National Conference on ‘Advances in Mathematical Sciences’ held on 28-29<sup>th</sup> March 2011 organized by Department of Mathematics, Sri Venkateshwara University, Tirupati.
- (13) Attended in Refresher Course held on 2-22<sup>nd</sup> September 2010 in University of Hyderabad, Hyderabad.
- (14) Two days workshop on “Vision group of Mathematics and Computer Science” held on 19-20<sup>th</sup> March 2010 organized by Department of Mathematics, Kuvempu University, SHIMOGA.
- (15) Attended two day training programme on “Computer Concepts, Operating System & Internet” Conducted by Instrumentation Maintenance Facility Centre, Kuvempu University, SHIMOGA, During 3-4<sup>th</sup> Dec 2009.
- (16) “Study of an Unsteady Dusty Fluid Flow through an Open Rectangular Channel using Differential-Geometry Techniques”, (with C.S. Bagewadi & B.C.PrasannaKumara) Presented at National Conference of the Tensor Society on ‘Development of Differential Geometry’ held on 2-3<sup>rd</sup> October 2009 organized by The Tensor Society, Swargashram, RISHIKESH.

- (17) “3D Couette Flow of Dusty Fluid with Heat Transfer ”, (with C.S.Vishalakshi & C.S. Bagewadi) Presented at International Conference on ”Frontiers in Fluid Mechanics” held on 31<sup>st</sup> Aug to 2<sup>nd</sup> Sep 2009 organized by aegis of UGC Centre for Advanced Studies in Fluid Mechanics, Bangalore University, BANGALORE
- (18) Attended WORKSHOP-II on ‘Some Steps to Remove Research Illiteracy in Differential Geometry’ organized by Pravara Rural Engineering College, Loni, Tal-Rahata, Dist-Ahmednagar from 11<sup>th</sup> Dec 2008 to 14th Dec 2008.
- (19) One day seminar on “Recent trends in Mathematics” held on 5<sup>th</sup> May 2008 organized by Department of Mathematics, Kuvempu University, SHIMOGA.
- (20) “Unsteady flow of dusty fluid between two non-torsional oscillating plates”, (with C.S. Bagewadi & B.C.PrasannaKumara) Presented at International Conference on ‘Advances in Mathematics: Historical Developments & Engineering Applications’ held on 19-22<sup>nd</sup> December 2007 organized by Department of Mathematics, Statistics and Computer Science, G.B.Pant University, UTTARA KHAND.
- (21) Attended UGC Sponsored Orientation programme during 11th June to 7<sup>th</sup> July 2007, Academic Staff College Bangalore University, BANGALORE.
- (22) Attended one day workshop on ‘Recent developments in mathematics’ held on 30<sup>th</sup> March 2007 organized by Department of Mathematics, Govt. Science College, BANGALORE.
- (23) Attended one day Seminar on mathematics, Govt. Science College, held during 10<sup>th</sup> March 2007, CHITRADURGA.
- (24) “Pulsatile flow of an unsteady dusty fluid through rectangular channel”, (with C.S. Bagewadi & B.C.PrasannaKumara) Presented at International Conference of JANGJEON Mathematical Society held on 22-24<sup>th</sup> Feb 2007 organized by Department of Mathematics, Bangalore University, BANGALORE.
- (25) Attended UGC Sponsored Three days Training programme in “Computer Hardware & Networking” during 10 to 12<sup>th</sup> Oct 2006, IMF Centre, Kuvempu University, SHIMOGA.
- (26) Attended one day workshop on “Recent trends in electronic instrumentation” Organized by Department of Electronics, Kuvempu University, SHIMOGA, During 25<sup>th</sup> April 2006.
- (27) “Unsteady dusty fluid flow under varying periodic pressure gradient”, (with C.S. Bagewadi & B.C.PrasannaKumara) Presented at National Conference on RDMA,

Organized by Department of Mathematics, North Bengal University, DARJEELING, during 20-22<sup>th</sup> Jan 2005.

- (28) “Flow of unsteady dusty fluid under varying linear pressure gradient” (with C.S. Bagewadi & B.C.PrasannaKumara) Presented at National Conference on Geometry, Analysis, Fluid Mechanics and Computer Applications, Organized by Department of Mathematics, Kuvempu University, SHIMOGA, During 9-11<sup>th</sup> Dec 2004.
- (29) “The National Instructional Workshop on Industrial Mathematics” organized by Department of Applied Mathematics, MS University of Baroda, during 1-7<sup>th</sup> December 2003. VADODARA.
- (30) “Two Dimensional Steady Dusty Gas Flow in Frenet Frame Field System” (with C.S. Bagewadi), Presented at International Symposium on Analysis, Manifolds & Mechanics held in February 5-7<sup>th</sup>, 2003, KOLKATTA.
- (31) “A Study of Two Dimensional Dusty Fluid Flow under Transverse Magnetic Field” (with C.S. Bagewadi), Presented at 90th Indian Science Congress held in Jan 2003 at BANGALORE.
- (32) “A Study of Two Dimensional Unsteady Dusty Fluid Flow under Varying Pressure Gradient” (with C.S.Bagewadi), Presented at ‘The National Seminar on Recent Advances in Fluid Mechanics’ held in 11-12<sup>th</sup> September 2002, GULBARGA.
- (33) Attended the First DST-SERC School on “Mathematical Modeling of Atmospheric Pollution” held during May 15<sup>th</sup>-June 16<sup>th</sup>, 2001 organized by UGC-DSA Programme, Department of Mathematics, Bangalore University. BANGALORE.
- (34) The National Seminar on “Challenges of Mathematics in 21st Century” held during 3-4<sup>th</sup> February 2001 organized by Department of Mathematics, Mysore University, MYSORE.
- (35) International Conference on “Geometry, Analysis, Fluid Mechanics and their applications” held on 15-17<sup>th</sup> Jan 2000 organized by Department of Mathematics, Kuvempu University, SHIMOGA.

#### **SPECIAL LECTURE DELIVERED:**

- (1) Delivered a Invited lecture on ‘Thermal Analysis due to Natural Convection and Radiation in a Fully Wet Porous Fin’ in one day national seminar on ‘Recent trends and applications in mathematics’ organized by Department of Mathematics, Govt. Science College, Chitradurga, on 27<sup>th</sup> March 2019.

- (2) Delivered a Invited lecture on ‘Thermal Analysis due to Natural Convection and Radiation in a Fully Wet Porous Fin’ in ‘International Conference on Emerging Trends in Computational Fluid Dynamics’ organized by Department of Mathematics, Christ University, Bangalore on 27 – 28<sup>th</sup> February 2019.
- (3) Delivered a Invited lecture on ‘Thermal Analysis due to Natural Convection and Radiation in a Fully Wet Porous Fin’ in State level seminar on ‘Applications of Mathematics’ organized by Department of Mathematics, Sahyadri Science College, Shivamogga on 16<sup>th</sup> February 2019.
- (4) Delivered a Invited lecture on ‘Finite Difference Method’ in one week national level workshop on ‘Differential Geometry and its Applications in Engineering Fields’ organized by Department of Mathematics, JNNCE, Shivamogga on 21 – 25<sup>th</sup> January 2019.
- (5) Delivered a Special lecture in two days state level workshop on ‘Computational Skills Development for UG Teachers’ organized by Department of Mathematics, Sahyadri Science College, Shivamogga on 11 – 12<sup>th</sup> January 2019.
- (6) Delivered a Invited lecture on ‘Dimensional analysis and Nondimensionalization’ in two day national level workshop in ‘Theoretical and Computational Fluid Dynamics-NWTCED’ organized by Department of Mathematics, Erode Sengunthar Engineering College, Tamilnadu on 21 – 22<sup>nd</sup> December 2018.
- (7) Delivered a Invited lecture on ‘Dimensional analysis and Nondimensionalization’ in national conference on ‘Computational Fluid Flow and Heat Transfer’ organized by Department of Mathematics, Osmania University, Hyderabad on 28 – 29<sup>th</sup> March 2018.
- (8) Delivered a Invited lecture on ‘Dimensional analysis and Nondimensionalization’ in national conference organized by Department of Mathematics, Karnataka University, Dharwad on 9 – 10<sup>th</sup> March 2018.
- (9) Delivered a Invited lecture on ‘Applications of Mathematics in Real world problems’ in Special Lecture Series held at Sri Sri Shivalingeshwara Swamy GFGC and P.G. centre , Channagiri on 28<sup>th</sup> February 2018.
- (10) Delivered a Invited lecture on ‘Applications of Mathematics in Real world problems’ in Special Lecture Series held at Mahajana First Grade College, Mysore on 28<sup>th</sup> February 2018.
- (11) Delivered a lecture on ‘Latex program manipulation’ MES College, Chikkamangalore on 3<sup>rd</sup> February 2018.

- (12) Delivered a lecture on ‘Application of Mathematics in Engineering’ in two day workshop on ‘Advanced Mathematical Techniques in Research and Engineering Applications’ organized by GM Institute of Technology, Davanagere on 29<sup>th</sup> January 2018.
- (13) Delivered a lecture on ‘Dimensional analysis and Nondimensionalization’ and presented a paper titled ‘Thermal analysis of natural convection and radiation in a fully wet porous fin’ in National Conference on Recent Advances in Mathematical Sciences and Applications held in Tumkur University on 1-2<sup>nd</sup> December 2017.
- (14) Delivered a lecture on ‘Application of Quantitative Measures in Business Decisions’ as a part of Bridge course held at Institute of Management Studies and Research, Kuvempu University on 9<sup>th</sup> October 2017.
- (15) Delivered an ‘Inspire Lecture’ to the SSLC exam top scored students and for teachers organized by Department of School Education, Chitradurga on 23<sup>rd</sup> August 2017.
- (16) Delivered a talk on ‘Heat Transfer through Fins’ in International Conference on ‘Recent Advances in Physical Sciences and Future Challenges’ organized by Osmania University, Hyderabad on 14<sup>th</sup>-16<sup>th</sup> July 2017.
- (17) Delivered a talk on ‘Nonlinear Differential Equations, MATLAB and MAPLE Programming’ in Faculty Development Programme held at Department of Mathematics, JNNCE, Shimoga, on 28<sup>th</sup> and 29<sup>th</sup> June 2017.
- (18) Delivered a talk on ‘Partial Differential Equations and its Applications’ in IQAC sponsored state level workshop on “Mathematics and its Applications” held at Smt. Indira Gandhi Govt. first grade Women’s College on 21<sup>st</sup> and 22<sup>nd</sup> April 2017.
- (19) Delivered a talk on ‘Easy Techniques for Enhancing students understanding’ in a workshop organized by Jnanasagara Central School, Shivamogga for teachers on 4<sup>th</sup> April 2017.
- (20) Delivered a talk on ‘Gravitational waves’ in State level seminar on ‘Advances in Mathematics and its Application’ held at Sahyadri Science College, Shimoga on 24<sup>th</sup> March 2017.
- (21) Delivered a talk on ‘Heat transfer through fins’ in the International conference on Mathematical Modelling held at Department of Mathematics, DON BOSCO Institute of Technology, Bengaluru, Karnataka on 23<sup>rd</sup> and 24<sup>th</sup> December 2016.
- (22) Delivered a special lecture on ‘Differential Equations and its Applications’ held at Smt. Indiragandhi G.F.W.C. and P.G. Center, Sagar on 12<sup>th</sup> November 2016.

- (23) Delivered a talk on ‘Inspiration towards Mathematics’ in the National Seminar on Recent Trends in Mathematics and its Applications held at PG and Research Department of Mathematics, Govt. Arts College for Men, Krishnagire, Tamil Nadu on 3<sup>rd</sup> October 2016.
- (24) Served as a Resource person in the national conference on ‘Mathematical Science and Applications’ held at Mangayarkarasi College of Arts and Science for Women, Madurai, Tamil Nadu on 1<sup>st</sup> October 2016.
- (25) Invited talk on ‘Research Opportunities in Mathematics’ in One day Workshop organized by U.G. Department of Mathematics, Alva’s College, Moodbidri held on 2<sup>nd</sup> September 2016.
- (26) Invited talk on ‘Heat Transfer Analysis Through Fins’ in National Conference on “An Insight into Analysis and Applications of Mathematics” held on 24<sup>th</sup> August 2016, at National College, Jayanagar, Bangalore.
- (27) Delivered a talk on ‘Thermal Analysis of Natural Convection and Radiation in a Fully Wet Porous Fin’ in Conference on “Geometry, Topology and Their Applications” on 3<sup>rd</sup> and 4<sup>th</sup> August 2016 at Karnatak University, Dharwad.
- (28) Invited talk on ‘Foundations of Mathematics’ in the programme of Interaction with Scientists held on July 31<sup>th</sup> at Mysore Science Foundation(R), Regional Museum of Natural History, Siddharthanagar, Mysore.
- (29) Invited talk on ‘Heat Transfer Through Fins’ in National Conference on “Recent Advances in Mathematics and Their Applications (NCRAFM-2016)” held on May 30-31<sup>st</sup> at Department of Mathematics, Osmania University , Hyderabad-500007.
- (30) Invited talk on ‘Heat Transfer Through Fins’ in Seminar, held on 26th March 2016 at Department of Physics, Govt. first Grade College, Holenarasipura.
- (31) Chaired a session and given invited talk on ‘Finite Difference Methods’ in UGC sponsored National workshop on “Partial Differential Equations and Numerical Methods in Fluid Dynamics”, held on 4<sup>th</sup> and 5<sup>th</sup> March 2016 at Department of Mathematics, Govt. first Grade College, Koppa.
- (32) “Thermal Analysis of Natural Convection and Radiation in a Fully Wet Porous Fin”, presented at “UGC Sponsored Two Day National Seminar on Recent Advances in Mathematics and its Applications (NSRAMA-2016)”, held on 18<sup>th</sup> and 19<sup>th</sup> February 2016, at JSS college of Arts, Commerce and Science, Ooty road, Mysuru.
- (33) Invited talk on ‘Runge-Kutta and Shooting methods to Solve Boundary Value Problems’, in National workshop on “Recent *advanced* techniques in fluid dynamics”, held

at Department of Mathematics, Osmania University, Hyderabad, Telangana state on 8-10<sup>th</sup> **December 2014**.

- (34) Invited talk on ‘Melting Heat Transfer in MHD Boundary Layer Stagnation Point Flow of a Nanofluid Towards a Stretching with Induced Magnetic Field’, in National conference on “Recent Developments in Mathematics and Their Applications”, held at Department of Mathematics, Tumkur University, Tumkur on 17-18<sup>th</sup> October 2014.
- (35) Lecture delivered on ‘Basic History and Application of Mathematics’, Govt. Science College, Nyamathi, Davanagere Dist. held on 17<sup>th</sup> of September 2014.
- (36) Invited talk on ‘Melting Heat Transfer in Dusty Nanofluid’, in National conference on “Advances in geometry analysis, and fluid mechanics” , held at Department of Mathematics, Kuvempu University, Shimoga on 26-27<sup>th</sup> August 2014.
- (37) Invited talk on ‘Dusty Nanofluid Flow over a Stretching Sheet’, in International conference on “Emerging trends in Mathematical Sciences” , held at Department of Mathematics, V.S.K. University, Bellary on 25-26<sup>th</sup> July 2014.
- (38) Delivered a special lecture in Department of Mathematics, Davangere University, Davanagere on 21-22<sup>nd</sup> April 2014.
- (39) Lecture delivered on ‘Application of Mathematics’, Govt. Science College, Shimoga, held on 14<sup>th</sup> of March 2014.
- (40) Lecture delivered on ‘Application of Mathematics’, Govt. Science College, Chitradurga, held on 10<sup>th</sup> of March 2014.
- (41) Invited talk on ‘Effect of Suspended Particles on Nanofluid flow’, in the UGC sponsored one day National seminar on Recent Advances in Mathematics and their Implications, organised by Department of Mathematics D.R.M.Science College, Davangere, on 8<sup>th</sup> of March 2014.
- (42) Invited talk on ‘Effect of Suspended Particles on Boundary Layer Flow past a Stretching Surface in Porous Medium Saturated by Nanofluid’, in the National seminar on Emerging Trends in Mathematics and its Applications, held at Acharya Nagarjuna University, Ongole Campus, Ongole (A.P.) during 6-7<sup>th</sup> of March 2014.
- (43) Invited talk on ‘Vedic Mathematics and their applications’, at the national conference on ‘Geometry, Analysis and Fluid Mechanics (NCGAF-2013) in the department of Mathematics, Government First Grade College, Koppa during on 20-21<sup>st</sup> September 2013.
- (44) Invited talk on ‘Facts and Applications of Mathematics’ at the one day state level seminar on “Applied Mathematics, Linear Algebra and its Applications”, held at

Department of Mathematics, Sahyadri Science College (Autonomous), Shimoga on 14<sup>th</sup> september 2013.

- (45) Invited talk on 'Three Dimensional MHD Couette Flow and Heat Transfer in a Dusty Liquid With Differential Suction/Injection', at the 26th International Conference of Jangjeon Mathematical Society (South Korea) in association with Acharya Institute of Graduate Studies, Bangalore on 1-4<sup>th</sup> of August 2013.
- (46) Lecture delivered on 'Joy of Mathematics', Govt. First Grade College, held during 23<sup>rd</sup> March 2013, Hosanagara.
- (47) Lecture delivered on 'Application of Mathematics', Govt. First Grade College, held during 1<sup>st</sup> September 2012, Chitaguppa.
- (48) Lecture delivered on 'Introduction to Matlab', Govt. First Grade College, held during 26<sup>st</sup> August 2012, Hassan.
- (49) Lecture delivered on 'Introduction to Latex and Matlab', UGC-Academic Staff College, Karnatak University, held during 10th & 11th July 2012, Dharwad.
- (50) Lecture delivered on 'History & Applications of Mathematics', held during 17-22<sup>th</sup> June 2012, CHIKKODI.
- (51) Lecture delivered on 'On Hartmann flow', Department of Mathematics, Davangere University, held during 23<sup>th</sup> May 2012, DAVANAGERE.
- (52) Lecture delivered on 'History & Mathematical Modeling', S.J.M Arts, Science and Commerce College, held during 29<sup>th</sup> February 2012, CHITRADURGA.
- (53) Lecture delivered on 'History & Applications of Mathematics', Vedavathi Govt First Grade College, held during 14<sup>th</sup> January 2012, HIRIYUR.
- (54) Lecture delivered on 'History & Applications of Mathematics', Govt First Grade Women's College, held during 28<sup>th</sup> January 2012, Sagar.
- (55) Lecture delivered on 'Mathematics & it's importance', workshop for high school teacher, Kuvempu University, held during 22<sup>nd</sup> November 2011, SHIMOGA.
- (56) Lecture delivered 'On Ramanujan', Govt. First Grade Women College, held during 19<sup>th</sup> September 2011, SAGAR.
- (57) As a resource person in two days training programme on "Computer Hardware, Open Office and Linux for Research and Networking" conducted by IMF centre, Kuvempu University, held on 26 -27<sup>th</sup> July 2011.
- (58) Lecture delivered on 'A Brief History & Problem solving techniques', Govt. First Grade College, held during 15<sup>th</sup> March 2011, Thirthahalli.

- (59) Lecture delivered on 'A Brief History & Problem solving techniques', Govt. First Grade College, held during 11<sup>th</sup> March 2011, HOSADURGA.
- (60) Lecture delivered on 'National Eligibility Test Preparations', L.B.College, held during 15<sup>th</sup> December 2010, SAGAR.
- (61) Lecture delivered on 'A Brief History & Applications of Mathematics', Govt. First Grade College, held during 18<sup>th</sup> October 2010, SAGAR.
- (62) Lecture delivered on 'History of Mathematics', Govt. First Grade College for Women's, held during 23<sup>th</sup> April 2010, HASSAN.
- (63) Lecture delivered on 'Applications of Numerical methods', DVS college, held during 27<sup>th</sup> March 2010, SHIMOGA.
- (64) Lecture delivered on 'Applications of Numerical methods in Engineering', Department of Applied Sciences(SIET), held during 6<sup>th</sup> March 2010, TUMKUR.
- (65) Deliver Invited talks on 'Mathematical Modelings & Laplace Transform', Walchand College of Arts and Science, held during 3-4<sup>th</sup> Aug 2009, SOLAPUR.
- (66) Lecture delivered on 'Problem solving techniques & Applications of Mathematics' in seminar held at Sahyadri Science College, during 14<sup>th</sup> March 2008, SHIMOGA.
- (67) Lecture delivered on 'Mathematical Modeling in Seminar', Govt. Science College, held during 10<sup>th</sup> March 2007, CHITRADURGA.
- (68) Lecture delivered on 'Applications of Mathematics in Industries', Sri Shivalingeshwara Govt. Science College, held during 9<sup>th</sup> March 2007, CHANNAGIRI.
- (69) Lecture delivered on 'Mathematical Modeling' at Workshop for PU College Teachers held during 15<sup>th</sup> November 2005, CHITRADURGA.

#### **INSTITUTIONAL GOVERNANCE RESPONSIBILITY:**

- (1) Working as a Deputy Director in PMEB, Kuvempu University from February 2017 till date.
- (2) Worked as Faculty Advisor for boys Hostel from August 2011-2014.
- (3) Worked as a L I C Member in Kuvempu University
- (4) Worked as a L I C Member in Gulbarga University
- (5) Worked as an Editorial Board Member in preparing Annual Report of Kuvempu University for the year 2011-2014
- (6) Member for popularization of Science and Technology, Kuvempu University
- (7) Organizing Committee member for conference of Syndicate Members of all universities held in Kuvempu University

- (8) Member in convocation committee, Kuvempu University
- (9) Worked as Special stock verification member, Kuvempu University
- (10) Member in Admission Committee, Kuvempu University
- (11) Enquiry Committee against Hostel Workers, Kuvempu University, 2012

**(B.J.Gireesha)**