# CURRICULUM-VITAE

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| NAME | : | **Dr.B.J.Gireesha** |
| OBJECTIVE | : | Teaching /Research |
| POSTAL ADDRESS | : | Department of Mathematics,<br>Kuvempu University<br>Jnana Sahyadri-577 451, SHIMOGA.<br>Karnataka, India<br>Ph.: (Off) 08282-257310, (Res) 256277,<br>(Mobile) 9741148002. |
| E.Mail | : | bjgireesu@gmail.com, bjgireesu@kuvempu.ac.in,<br>bjgireesu@rediffmail.com |
| NATIONALITY | : | INDIAN |
| DATE OF BIRTH | : | June $1^{st}$ 1974 |
| MARITAL STATUS | : | Married |
| EDUCATIONAL QUALIFICATION | : | **M.Sc., (1997) M.Phil., (1999)**<br>**Ph.D., (2003) P.D.F., (2015)** |
| AREA OF THE RESEARCH WORK | : | Computational Fluid Dynamics,<br>Two-phase Flows, Heat and Mass Transfer<br>Newtonian/non-Newtonian fluid flows,<br>Stretching Sheet problems, Heat Transfer<br>through Fins, Micro Fluidics, Wavelet theory. |
| RESEARCH EXPERIENCE | : | From September 1997 to till date |
| TEACHING EXPERIENCE | : | From September 1998 to till date |
| MEMBER FOR PROFESSIONAL BODIES | : | 05 |

(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.

(5) Life Member of Andhra Pradesh and Telangana Society for Mathematical Sciences, Hyderabad

**AWARDS and RECOGNITIONS:**

- Ranked $3^{rd}$ in the nation in the area of Mechanical, and Aerospace engineering in 2024 edition by Research.com.
- Prestigious "Sir C.V. Raman Young Scientist State Award" in the field of Physical Sciences for the year 2020, instituted by the Government of Karnataka.
- Life Member of National Academy of Sciences(NASI), India, 2021.
- Recognized as one of the top-most scientists in the world from Stanford University Rankings continuously in the years 2018, 2019, 2020, 2021, 2022, 2023,2024.
- Ranked $3^{rd}$ in the nation and $534^{th}$ in the world in the area of Mechanical and Aerospace Engineering in 2022 edition by Research.com.
- Recipient of "India Top Cited Paper Award 2022" in Physics by IOP Publishing which recognizes him as an author of the top 1% most cited papers in IOP Publishing's portfolio of journals from 2019-2021.
- Ranked $8^{th}$ in the nation and 942 in the world in the area of Mechanical and Aerospace Engineering in 2023 edition by Research.com.
- Ranked $7^{th}$ in the nation, and 510 rank in the world in the area of Mechanical, and Aerospace engineering in 2023 edition by Research.com.
- Prestigious "RAMAN FELLOWSHIP-2015" for Post Doctoral Research for Indian Scholar in USA.

**MEMBERSHIP IN EDITORIAL BOARDS** : 12

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

(10) Asian Journal of Advanced Research and Reports.
(11) International Journal of Mathematical Physics.
(12) International Journal of Engineering and Technologies.

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| 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) Mathematical Problems in Engineering.
(7) Thermal Science.
(8) International Journal of Heat and Mass Transfer (IJHMT).
(9) Journal of Heat and Mass Transfer (Elsevier).
(10) International Journal of Engineering Science and Technology(IJEST).
(11) Journal of Applied Fluid Mechanics (JAFM).
(12) Walailak Journal of Science and Technology (WJST).
(13) Zeitschrift fuer Naturforschung A (ZNA) Journal.
(14) PLOS ONE Journal.
(15) International Journal of Industrial Mathematics.
(16) Journal of Aerospace Engineering.
(17) Propulsion and Power Research (Elsevier).

(18) Scientia Iranica Journal.
(19) Journal of Thermophysics and Heat Transfer (Elsevier).
(20) British Journal of Mathematics and Computer Science.
(21) Asian Research Journal of Mathematics.
(22) International Journal of Numerical Methods for Heat and Fluid Flow (Emerald).
(23) International Journal of Physical Sciences.
(24) Computational Thermal Sciences.
(25) Archives of Current Research International.
(26) American Chemical Science Journal.
(27) Journal of Magnetism and Magnetic Materials (Elsevier).
(28) International Journal of Heat and Mass Transfer (Elsevier).
(29) Asian Journal of Mathematics and Computer Research.
(30) Journal of Basic and Applied Research international.
(31) Engineering Applications of Computational Fluid Mechanics.
(32) Applied Mathematics and Mechanics (English Edition).
(33) Chinese Journal of Aeronautics.
(34) Physical Science International Journal.
(35) Journal of Applied Physical Science International.
(36) Applied Mathematics and Computation (Elsevier).
(37) Science Domain International.
(38) International Journal of Applied and Computational Mathematics. (Springer)
(39) Advanced Powder Technology
(40) Journal of Nanomaterials, Nanoengineering and Nanosystems
(41) Transactions of A. Razmadze Mathematical Institute
(42) Journal of Molecular Liquids
(43) Journal of Porous Media
(44) Chaos, Solitons and Fractals
(45) International Journal of Fluid Mechanics Research (Begell House)
(46) Journal of Process Mechanical Engineering
(47) Chinese Journal of Physics
(48) International Journal of Engineering and Technologies
(49) International Journal of Thermal Sciences
(50) Informatics in Medicine Unlocked
(51) Thermal Science and Engineering Applications

(52) Chemical Engineering Science

(53) Colloid and Polymer Science

(54) Special issue 2 of Defect and Diffusion

**RESEARCH SUPERVISION** :

| | | | |
|---|---|---|---|
| 01 | Students Awarded Ph.D., degree | : | 25 |
| 02 | Students working for Ph.D., degree | : | 07 |
| 03 | Students awarded as P.D.F. | : | 01 |
| 04 | Students Awarded M.Phil., degree | : | 11 |
| 05 | Guidance for M.Sc Dissertation Work | : | 42 batches |
| 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 | Dhanalakshmi R | : | Numerical solutions of boundary layer flow and heat transfer of Newtonian fluid suspended with CNT | 2017 |
| 02 | Anitha L | : | Flow characteristics and heat transfer analysis of different fluids in microchannels- a numerical approach | 2020 |
| 03 | Usha B | : | A numerical approach to study heat transfer analysis through fins of different structure and in microchannels | 2021 |
| 04 | Pavithra C G | : | Impact of new similarity transformations in the analysis of flow and heat transfer in different fluids: A numerical approach | 2022 |
| 05 | Sushma | : | Impact of similarity transformations on solutions of boundary layer flow and heat transfer problems | 2022 |
| 06 | Gowtham K. J. | : | Wavelet methods to Solve Differential Equation in Real Word Problems | 2023 |
| 07 | Manvitha N. V. | : | Wavelet based solution for heat and transfer fluid flow problems in different fin structures | 2023 |

**RESEARCH PROJECTS 05**

| **Sl.No.** | | **Title** | **Organization** | **Amount** |
|---|---|---|---|---|
| 1 | Major | Unsteady flow and heat transfer of a dusty fluid | 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. 38,000.00 |
| 4 | Major | Numerical Investigation on boundary layer flow of fluid particle suspension and heat transfer over a stretching/shrinking sheet | UGC | Rs. 11,25,000.00 |
| 5 | Major | FIST programme | DST | Rs. 55,00,000.00 |

**EDITED VOLUMES**

(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) Advanced Differential Equations (Published by STUDERRA press, New Delhi) 2016.
(2) "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.
(3) "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) pp. 167, DOI: 10.5772/intechopen.74807.
(4) Convection Flow over a Stretching Sheet with Fluid Particle Suspension (Published by LAMBERT Academic Publishing) 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, pp. 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) **B.J.Gireesha** & ML Keerthi"Thermal performance of stretching/shrinking fully wet porous cylindrical and conical pin fin structures by differential transformation approach",International Journal of Modern Physics B:(2024) (World Scientific Publishing Company),38(20), (IF- 2.6) .

(2) PL Pavan Kumar,& **B.J.Gireesha**, P Venkatesh, M L Keerthi"Transient thermal behavior and efficiency in fully wet porous longitudinal fin: The influence of shape-dependent hybrid nanofluid and internal heat generation",Numerical Heat Transfer, Part A: Applications,(2024) (Taylor & Francis),1-21, (IF-2.0) .

(3) CG Pavithra,& **B.J.Gireesha** ,"Impact of new similarity transformations on heat transfer analysis of Casson tri-hybrid nanofluid in blood with thermal radiation through a stretching sheet: a homotopy ?",International Journal of Modelling and Simulation,(2024) (Springer),1-25, (IF-0.352) .

(4) PL Pavan Kumar, **B.J.Gireesha**, & P Venkatesh,Comparative analysis of thermal behaviour in functionally graded material fin under convective-radiative heat transfer: Homotopy perturbation method",International Communications in Heat and Mass Transfer,(2024) (Elsevier),107560, (IF-7) .

(5) Sushma, **B.J.Gireesha** & CG Pavithra,"Impact of thermal radiation on stretching sheet: a numerical approach using new similarity transformations",The European Physical Journal Plus,(2024) (Springer),139-1, (IF-3.758) .

(6) L.Anitha, **B.J.Gireesha**, M.L.Keerthi "Irreversibility scrutiny of SWCNT and MWCNT nanofluid convective flow using Darcy-Forchheimer rule in an upright microchannel with variable thermal conductivity and Brownian motion",International Journal of Ambient Energy,(2024) (Taylor & Francis)45-1, (IF-0.421) .

(7) **B.J.Gireesha**,CG Pavithra "Semi-analytical and numerical investigation of a fully wet porous moving longitudinal fin exposed to a magnetic field with radiation and temperature-dependent thermal conductivity",International Journal of Ambient Energy,(2024) (Taylor & Francis)45-1, (IF-0.421) .

(8) L.Anitha, **B.J.Gireesha**"Irreversibility scrutiny of chemically reactive Powell?Eyring liquid flow in a microchannel with Buongiorno model: a hybrid nanoparticles aspect",International Journal of Ambient Energy,(2024) (Taylor & Francis)45-1, (IF-0.421) .

(9) L.Anitha, **B.J.Gireesha** "Natural convection flow of third-grade fluid along an oblique permeable micro-channel with Hall effects: an irreversibility analysis",International Journal of Ambient Energy, (2024) (Taylor & Francis),45-1, (IF-0.421) .

(10) , K.J.Gowtham,**B.J.Gireesha** CG Pavithra, " "A Study of Hybrid Nanofluid ( ) in Micro Channel with Partial Slips and Convective Conditions: Entropy Generation Analysis",International Journal of Applied and Computational Mathematics,(2024) (Springer),10-2, (IF-2.31) .

(11) CG Pavithra, **B.J.Gireesha** & Rama Subba Reddy Gorla"Semi-closed Solutions of Two-Dimensional Nanofluid Flow and Heat Transfer Over a Nonlinear Stretching Sheet Embedded with New Set of Similarity Transformations",International Journal of Applied and Computational Mathematics,(2024) (Springer),10, (IF-2.31) .

(12) B Usha, & **B.J.Gireesha**,"Entropy generation analysis of micropolar fluid flow through a vertical microchannel under the combined effect of Joule heating, viscous dissipation, and thermal radiation with convective boundary conditions",International Journal of Modelling and Simulation(2024) (Taylor and francis),1-13 (IF-0.352) .

(13) CG Pavithra, & **B.J.Gireesha** "Heat transfer in a wet porous moving inclined longitudinal fin exposed to convection and radiation in the presence of shape-dependent hybrid nanofluid: Adomian decomposition ?",Journal of Molecular Liquids,(2024) (Elsevier),393, (IF-6) .

(14) F Almeida, S Sindhu, P Venkatesh & **B.J.Gireesha**,"Delineation of heat transfer and flow analysis of Carreau nanofluid in microchannel using Buongiorno model",International Journal of Modern Physics B,(2024) 38, 2450033 (IF-1.7) .

(15) G.K.Ramesh,G¿R.Manohar, J.K.Madhukesh,P,Venkatesh & **B.J.Gireesha**,"Thermal aspects of a radiative-convective semi-spherical porous fin of functionally graded material",The European Physical Journal Plus(2024) (Springer), 139, 1-18 (IF-3.4) .

(16) P L Pavan Kumar, **B.J.Gireesha**,& P Venkatesh"Impact of trihybrid nanofluid on the transient thermal performance of inclined dovetail fin with emphasis on internal heat generation",The European Physical Journal Plus(2024) (Springer), 139, 1-18 (IF-3.4) .

(17) C G Pavithra, **B.J.Gireesha**, & M L Keerthi,"Semi-analytical investigation of heat transfer in a porous convective radiative moving longitudinal fin exposed to magnetic field in the presence of a shape-dependent trihybrid nanofluid",Applied Mathematics and Mechanics,(2024)(Springer) 45 (1), 197-216, (IF-4.5) .

(18) F Almeida, **B.J.Gireesha**, P Venkatesh, B Nagaraja,"KKL Model for Magnetized - Nanoliquid Drift in Microchannel Reckoning Brownian Motion",International Journal of Applied and Computational Mathematics(2023)(Springer), 9 (6), 148, (IF- 2.31) .

(19) B Nagaraja,**B.J.Gireesha** , F Almeida, P Kumar, AR Ajaykumar," Entropy Analysis of Darcy-Forchheimer Model of Prandtl Nanofluid over a Curved Stretching Sheet and Heat Transfer Optimization by ANOVA-Taguchi Technique",Journal of Applied and Computational Mechanics(Springer) (2023), (IF- 2.31) .

(20) **B.J.Gireesha**,C G Pavithra & M L Keerthi,"Semianalytical investigation on heat transfer in porous fins with temperature-dependent thermal conductivity via the homotopy perturbation Sumudu transform approach", Heat transfer(2023), (IF- 4.1) .

(21) L. Anitha & **B.J.Gireesha**,"Buongiorno model analysis on Carreau fluid flow in a microchannel with Non-linear thermal radiation impact and irreversibility", International Journal of Modelling and Simulation(2023),43(6),pp.879-892, (IF-0.421,) .

(22) B Usha & **B.J.Gireesha**,"Thermal analysis of fully wetted porous longitudinal fin of parabolic profile with variable thermal conductivity and convection?radiation ", Heat Transfer(2023). https://doi.org/10.1002/htj.22957.

(23) L. Anitha & **B.J.Gireesha**," Natural Convection Flow of Third-grade Fluid along an Oblique Permeable Microchannel with Hall Effects: An Irreversibility Analysis", International Journal of Ambient Energy,(2023),pp. 1-27, (IF-0.421,) .

(24) F Almeida, Pradeep Kumar, B Nagaraja & **B.J.Gireesha**, P Venkatesh" Parametric optimisation of entropy using sensitivity analysis and response surface methodology for the compressed flow of hybrid nanoliquid in a stretchable channel", Pramana,(2023),Vol. 97(4)pp. 159, (IF-2.219,) .

(25) S.Subba Bhatta, S. Ram Prasad & **B.J.Gireesha**," Numerical analysis of particulate Reiner?Rivlin flow in an asymmetric convergent channel with a heat source and magnetic field", International Journal of Modelling and Simulation,(2023),pp. 1-10, (IF-2.775,) .

(26) L. Anitha & **B.J.Gireesha**," Convective flow of Jeffrey nanofluid along an upright microchannel with Hall current and Buongiorno model: an irreversibility analysis", Applied Mathematics and Mechanics,(2023), Vol. 44(9),pp. 1613-1628, (IF-4.4,) .

(27) F Almeida, ML Keerthi, **B.J.Gireesha**, P Venkatesh, P Kumar& B Nagaraja. "Consistent ramifications of prescribed surface temperature and prescribed heat flux boundary conditions for the slip flow of Walter B fluid in a stretching channel", International Journal of Modelling and Simulation, (2023), (IF-3.29,)

(28) M L Keerthi, , **B.J.Gireesha**, & G Sowmya. "Impact of shape dependent hybrid nanofluid on transient efficiency of a fully wet porous longitudinal fin", ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, (2023), (IF-2.9,)

(29) Yu-Ming Chu, B M Shankaralingappa, **B.J.Gireesha**, Faris Alzahrani, M Ijaz Khan, & Sami Ullah Khan. "Combined impact of Cattaneo-Christov double diffusion and radiative heat flux on bio-convective flow of Maxwell liquid configured by a stretched nano-material surface ?", APPLIED MATHEMATICS AND COMPUTATION(ELSEVIER SCIENCE INC), (2023), Vol.450. (IF-4.397,)

(30) **B.J.Gireesha**, M L Keerthi "Thermal performance of stretching/shrinking fully wet porous cylindrical and conical pin fin structures by differential transformation approach", International Journal of Modern Physics B(World Scientific Publishing Company), (2023), pp.2450266. (IF-1.404,)

(31) A. Felicita, P. Venkatesh, & **B.J.Gireesha**, M.R Krishnamurthy "Slip and convective flow of Williamson nanofluid influenced by Brownian motion and thermophoresis mechanism in a horizontal microchannel", Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems(SAGE Publications), (2023), pp.23977914231177340. (IF-0.353,)

(32) M L Keerthi & **B.J.Gireesha**, 'Analysis of entropy generation in a fully wet porous moving longitudinal fin exposed to convection and radiation: homogeneous and functionally graded materials", Journal of Thermal Analysis and Calorimetry(Springer International Publishing), (2023), pp.1-13. (IF-4.755,)

(33) **B.J.Gireesha**,S Manthesha, F Almeida, P Mallikarjun "Flow of magnetized Powell-Eyring fluid in microchannel exposed to non-linear radiation and constricted to slip regime by varying viscosity",International Journal of Modelling and Simulation, (2023),
https://doi.org/10.1080/02286203.2023.2216049, (IF-2.775,) .

(34) BM Shankaralingappa, **B.J.Gireesha**, BC Prasannakumara, B Nagaraja "Darcy-Forchheimer flow of dusty tangent hyperbolic fluid over a stretching sheet with Cattaneo-Christov heat flux",Waves in Random and Complex Media, (2023),
https://doi.org/10.1080/17455030.2021.1889711, (IF-4.051,) .

(35) **B.J.Gireesha**, L.Anitha "Entropy Generation Analysis in Magnetohydrodynamic Couple Stress Nanofluid Flow Through an Oblique Microchannel in a Permeable Medium with Thermal Radiation",Journal of Nanofluids, (2023),
https://doi.org/10.1166/jon.2023.1969, (IF-0.329,) .

(36) L Anitha, **B.J.Gireesha**, M.L.Keerthi "Irreversibility Analysis of Tangent Hyperbolic Fluid Flow in a Microchannel: A Hybrid Nanoparticles Aspects",Physica Scripta (IOP publishing), (2023),https://doi.org/ 10.1088/1402-4896/acba53, (IF-3.081) .

(37) C.G. Pavithra, **B.J.Gireesha**, M.L.Keerthi "Heat transfer analysis of a convective radiative porous moving longitudinal fin exposed to magnetic field by Adomian decomposition sumudu transform method",Physica Scripta (IOP publishing), (2023),https://doi.org/ 10.1088/1402-4896/acbeed. (IF-3.081) .

(38) L.Anitha, **B.J.Gireesha**, "Entropy Generation Analysis in Magnetohydrodynamic Couple Stress Nanofluid Flow Through an Oblique Microchannel in a Permeable Medium with Thermal Radiation",Journal of Nanofluids(American Scientific Publishers), (2023), https://doi.org/10.1166/jon.2023.1969, (IF-0.329,) .

(39) F.Almeida, **B.J.Gireesha**, "Mixed convective flow of Casson nanofluid in the microchannel with the effect of couple stresses: irreversibility analysis." International Journal of Modelling and Simulation(Taylor and Francis), (2023), https://doi.org/10.1080/02286203.2022.2156974 (IF-2.775)

(40) M. L. Keerthi, **B.J.Gireesha**, K. M. Eshwarappa, "Transient thermal investigation of a fully wet porous convective/radiative rough cylindrical pin fin." Heat Transfer (Wiley Online Library), (2023), https://doi.org/10.1002/htj.22809. (IF-4.626)

(41) S. Sindhu, **B.J.Gireesha**, "Thermal distribution analysis of rectangular finconsidering multiboiling heat transfer mode", Heat Transfer (Wiley Online Library), (2022), https://doi.org/10.1002/htj.22776.

(42) F. Almeida, **B.J.Gireesha**, P. Venkatesh, "Magnetohydrodynamic flow of a micropolar nanofluid is association with Brownian motion and thermophoresis: Irreversibility analysis", Heat Transfer (Wiley Online Library), (2022), https://doi.org/10.1002/htj.22773

(43) B. V. Shilpa, D. V. Chandrashekhar, P.A.Dinesh, C.V.Vinay, C.G. Raghavendra **B.J.Gireesha**, "Soret and Dofour effect on convective flow of Casson fluid in a channel", Heat Transfer (Wiley Online Library), (2022), https://doi.org/10.1007/s10973-022-11707-8.

(44) D.O. Soumya, P. Venkatesh, **B.J.Gireesha**, Manohar R Gombi & M.R. Krishnamurthy, "Flow and thermal analysis of Oldroyd 8 constant fluid in a porous channel", Heat Transfer (Wiley Online Library), (2022), https://doi.org/10.1002/htj.22748.

(45) A. Roja & **B.J.Gireesha**, "Flow and heat transfer analysis of MHD third-grade fluid flow through a vertical microchannel subjected to entropy generation", Heat Transfer (Wiley Online Library), (2022), https://doi.org/10.1002/htj.22728.

(46) **B.J.Gireesha** & R. Dhanalakshmi, "Cattaneo-Christov heat flux model and multiple slip effect on carbon nanofluid over a stretching sheet in a Darcy-Forchheimer porous medium", Heat Transfer (Wiley Online Library), (2022), https://doi.org/10.1002/htj.22765.

(47) DO Soumya , **B.J.Gireesha** &P Venkatesh "Repercussion of Hall current, no-slip, and Newton boundary condition on the thermal energy of the Carreau fluid in a microchannel", International Journal of Ambient Energy (Taylor and Francis), (2022) pp. 4789-4800, (IF-0.421)

(48) L.Anitha & **B.J.Gireesha**, "Buongiorno model analysis on Carreau fluid flow in a microchannel with Non-linear thermal radiation impact and irreversibilityt", International Journal of Modelling and Simulation (Taylor and Francis), (2022) pp. 1-14.

(49) **B.J.Gireesha**& L.Anitha , "Repercussion of Hall effect and nonlinear radiation on Couette-Poiseuille flow of Casson-Williamson fluid through upright microchannel", Applied Mathematics and Mechanics (Springer Berlin Heidelberg), (2022) pp. 1951-1964, (IF-3.918)

(50) M.L. Keerthi, **B.J.Gireesha** & G. Sowmya, "Numerical investigation of efficiency of fully wet porous convective-radiative moving radial fin in the presence of shape-dependent hybrid nanofluid", International Communications in Heat and Mass Transfer(Elsevier), Vol. 138, (2022), p. 106341. (IF-6.782) .

(51) Macha Madhu, N.S.Shashikumar, K.Thriveni, **B.J.Gireesha** & B.Mahanthesh, "Irreversibility analysis of the MHD Williamson fluid flow through a microchannel with thermal radiation", Waves in Random and Complex Media (Taylor & Francis), (2022), pp. 1-23. (IF-4.051)

(52) P Venkatesh, A Felicita, & **B.J.Gireesha** , "Darcy-forchheimer convective flow of Casson nanofluid in the microchannel, buongiorno model", JNNCE Journal of Engineering and Management (JNNCE), (2022), pp. 1-18. (IF-4.051)

(53) D.O.Soumya, **B.J.Gireesha** & P.Venkatesh, "Tangent-hyperbolic nanoliquid flow in a microchannel, thermal and irreversibility rate analysis", Waves in Random and Complex Media (Taylor & Francis), (2022), pp. 48, (IF-4.051) .

(54) Macha Madhu, NS Shashikumar, **B.J.Gireesha** & Naikoti Kishan, "Entropy Generation Analysis of MHD Micropolar Nanofluid Flow through a Micro Channel", Discontinuity, Nonlinearity, and Complexity (L & H Scientific Publishing), Vol. 11 No. 4, (2022), pp. 569-582. (IF-0.191)

(55) **B.J.Gireesha** & L. Anitha, "Irreversibility analysis of micropolar nanofluid flow using Darcy-Forchheimer rule in an inclined microchannel with multiple slip effects", Heat Transfer (Wiley Online Library), Vol. 51 No. 6, (2022), pp. 5834-5856.

(56) S. Manjunatha, V. Puneeth, **B.J.Gireesha** & Ali. J. Chamkha,"Theoretical Study of Convective Heat Transfer in Ternary Nanofluid Flowing past a Stretching Sheet", Journal of Applied and Computational Mechanics(Shahid Chamran University of Ahvaz), Vol. 8 No. 4, (2022), pp. 1279-1286.

(57) M.L. Keerthi, **B.J.Gireesha** & G. Sowmya,"Numerical investigation of transient thermal behaviour of fully wet and porous moving semi-spherical fin", Physica Scripta (IOP Publishing), Vol. 97 No. 8, (2022), p.085220. (IF-3.081).

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## PUBLICATIONS IN CONFERENCE PROCEEDINGS:

(436) **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.

(437) **B.J.Gireesha**, B.C.Prasannakumara, M.R.Krishnamurthy, K.Ganesh Kumar, & M.Umeshaiah, "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.

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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.

(439) 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.

(440) 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.

(441) 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.

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**CITATION DETAILS:**

| | | |
|---|---|---|
| Number of Citations | : | **11996** |
| h-index | : | **62** |
| i-10 index | : | **263** |
| Scopus cited Documents | : | **325** |

**CONFERENCES/SEMINARS/SYMPOSIUM ORGANIZED:**

(1) International Conference on "Differential Geometry and its Applications" on $4^{th}-5^{th}$ March, 2022, Department of Mathematics, Kuvempu University, jointly organized by Kuvempu University and Tensor Society.

(2) $27^{th}$ International Conference of International Academy of Physical Sciences (CONIAPS-XXVII) on "Fluid Mechanics and its Industrial Applications" on $26^{th}-28^{th}$ October, 2021, Department of Mathematics, Kuvempu University, jointly organized by International Academy of Physical Sciences, Allahabad and Kuvempu University as a conference chair.

(3) National Conference on "Industrial Applications of Mathematics and its Developments" on $13^{th}-14^{th}$ March, 2020, Department of Mathematics, Kuvempu University, sponsored by Kuvempu University as a conference chair.

(4) National Conference on "Recent Developments of Mathematics in Industrial Applications" on $11^{th}-12^{th}$ April, 2019, Department of Mathematics, Kuvempu university and Sponsored by CSIR, DST and Kuvempu University as a conference chair.

(5) University level 3 days instructional workshop on "Scilab and Maxima" for UG Mathematics faculty during $23^{rd}-25^{th}$ June 2018 in the Department of Mathematics, Kuvempu University, Jnanasahyadri,Shankaraghatta.

(6) Science Academies' Lecture Workshop on 'Computational Fluid Dynamics' held on $21^{st}$ and $22^{nd}$ October 2016, Department of P.G Studies and Research in Mathematics, Kuvempu University, Shankaraghatta.

(7) "International Conference on Differential Geometry, Analysis And Fluid Mechanics (ICDGAFM - 2016)" held on $4^{th}$ and $5^{th}$ February 2016, Department of P.G Studies and Research in Mathematics, Kuvempu University, Shankaraghatta.

(8) National conference on 'Developments and Opportunities in Civil Engineering Applied Sciences and Mechanical Engineering' held on $18^{th}$ and $19^{th}$ May 2012 in the Department of Mathematics and information Science, East West institute of technology, Bangalore.

(9) The National Conference on 'Recent developments in Mathematics' to be held on $4^{th}$ and $5^{th}$ May 2012 organized by Department of Mathematics, Kuvempu University, SHIMOGA.

(10) Seminar for Syndicate Members of all universities of Karnataka State held during 12-$13^{th}$ January 2012.

(11) National Conference on 'Emerging trends in information technology and Mathematics' held on $3^{rd}$ and $4^{th}$ November 2011 organized by Department of Mathematics and information Science, East West institute of technology, Bangalore.

(12) The 3rd Annual Conference of THE TENSOR SOCIETY on 'Differential Geometry and its Applications' held on $27^{th}$ and $28^{th}$ May, 2011 organized by Department of Mathematics, Kuvempu University, SHIMOGA.

(13) Two days workshop on 'The Vision Group of Mathematics & Computer Science' during 19th -$20^{th}$ March 2010.

(14) 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.

(15) National Conference on 'Recent Trends in Mathematics' held during $05^{th}$ May 2008, Organized by Department of Mathematics, Kuvempu University, SHIMOGA.

(16) National Conference on 'Geometry, Analysis, Mechanics and Computer Applications' held during 09-$11^{th}$ December 2004 sponsored by Kuvempu University, CSIR/UGC and DST.

(17) International Conference on 'Geometry, Analysis and Fluid Mechanics and their Applications' held on 15-$17^{th}$ Jan 2000, sponsored by Kuvempu University, CSIR/UGC and DST.

## CONFERENCES/SEMINARS/SYMPOSIUM/WEBINAR ATTENDED/PRESENTED:

(1) Delivered an Invited lecture on "Impact of non-dimensionalization and selection of similarity transformation on fluid flow and heat transfer problems" organized by Department of Mathematics, University College of science, Tumkur University, Tumakuru on 10-11 January 2024.

(2) Delivered an Invited lecture on "Heat Transfer through Fins and Gravitaional waves" organized by Department of Mathematics, JT college, Gadag on $27^{th}$ of June, 2023.

(3) Delivered an Invited lecture on "Heat Transfer through Fins, Gravitaional waves and Differential equations " organized by Department of Mathematics, Shri Kadasiddeshwara Arts and H S Kotambari Science College, Hubli. on $28^{th}$ of June, 2023.

(4) Delivered an Invited lecture on 'Similarity Transformations Impact on Results of Boundary Layer Flow Problems" in National Seminar on "Mathematical Techniques and Applications" organized by Department of Mathematics, Mahatma Gandhi University, Nalgonda on $3^{rd} - 4^{th}$ March, 2023.

(5) Delivered an Invited lecture on "Heat Transfer through Fins" in International Conference on "Applied Research in Engineering Sciences (ICARES-2022)" Organized by Department of Mathematics, M. S. Ramaiah Institute of Technology, Bangalore on $24^{th} - 25^{th}$ November, 2022.

(6) Delivered an Invited lecture on "New similarity transformations impact on results of two-dimensional convection boundary layer flow of an incompressible fluid over a stretching sheet" in $3^{rd}$ International Conference on "Recent Trends in Applied and Computational Mathematics ICRTACM-2022" organized by School of Applied Sciences, Department of Mathematics, REVA University, Bengaluru on $10^{th}$-$11^{th}$ of October 2022.

(7) Delivered a lead lecture for One day State level Workshop on "Preparatory Strategy for IIT JAM Mathematics" organized by Department of Mathematics, Sahyadri Science College, Shivamogga on $30^{th}$ of June 2022.

(8) Delivered a Keynote Address on "Heat Transfer through Fins" in two days Karnataka Science and Technology Academy (KSTA), Govt. of Karnataka, sponsored lecture series in memory of Dr. Shanti Swarup Bhatnagar organized by Srisaila Jagadguru Vageesha Panditaradhya College, Harihara on $24^{th}$-$25^{th}$ of June 2022.

(9) Delivered an Invited lecture on "Mathematical Modelling of Fluid and Heat Transfer Systems in Mechanical Engineering" in three days Faculty Development Programme on "Applications of Mathematics in Engineering Discipline" organized by Department of Mathematics, Vidyavardhaka College of Engineering, Mysuru on $2^{nd}$-$4^{th}$ of June 2022.

(10) Delivered an Invited lecture on "Importance of Dimensional Analysis and Non-Dimensionalisation" in two days International Conference on "Recent Advances in Material Science and and Computational Techniques (RAMSACT)" organized by Department of Mathematics, Manipal University, Jaipur on $30^{th}$-$31^{st}$ of May 2022.

(11) Delivered an Invited lecture on "Introduction to non-linear differential equations and solutions through similarity transformations" in the XXX Congress of APTSMS and International Conference on "Mathematics and its Relevance to Science and Engineering (ICMRSE-2022)" organized by Department of Mathematics, Osmania University, Hyderabad, Telangana on $12^{th}$ - $14^{th}$ March 2022.

(12) Delivered an Invited lecture on "Heat Transfer Through Fins" in one day National Conference on "Recent Developments in Tribology and Applications(RDITA-2022)" organized by Department of Mathematics, Sharnbasva University, Kalaburgi on $9^{th}$ March 2022.

(13) Delivered a Invited lecture on 'Introduction to non-linear differential equations, numerical solutions to non-linear differential equations and hand-on session using Matlab' in the faculty development Programme on 'Computational Methods in Boundary Layer Theory' organized by Department of Mathematics, Ramaiah Institute of Technology, on $8^{th}$ of March 2022.

(14) Delivered an Invited lecture on "Advanced Differential Equations" in a refresher course organized by Department of Mathematics, Deen Dayal University, Gorakhpur, on $20^{th}$ of January 2022.

(15) Delivered an Invited lecture on "Advanced Differential Equations" in a refresher course organized by Department of Mathematics, Bangalore University, Bangalore on $19^{th}$ of January 2022.

(16) Delivered a special lecture on the occasion of "Srinivasa Ramanujan's Birth Anniversary-National Mathematics Day" organized by Department of P.G. Studies in Mathematics, Government Science College, Chitradurga on $22^{nd}$ of December 2021.

(17) Delivered a special lecture on "Applications of Mathematics" at the Government First Grade College, Bapuji Nagara, Shivamogga, on $3^{rd}$ of December 2021.

(18) Delivered an Invited lecture on "Heat Transfer Through Fins" in one day national webinar on "Emerging Domains in Mathematics: Real World Applications" organized by Department of Mathematics, University of Rajasthan, Jaipur on $22^{nd}$ November 2021.

(19) Delivered an Invited lecture on "Mathematical Modelling for Fluid FLow Problems" in two days National Conference on "Recent Advances in Mathematical Science and Technology(NCRAIMST-2021)" organized by Department of Mathematics, Jawaharlal Nehru New College of Engineering, Shivamogga on $08^{th}$ and $09^{th}$ October 2021.

(20) Delivered an Invited lecture on "Mathematical Modelling for Fluid Flow Problems" in two days national level webinar on "Advances in Mathematical Sciences and its Applications in Engineering and Research(AMSAER)" organized by Department of Mathematics, Bapuji Institute of Engineering and Technology, Davangere, on $11^{th}$ and $12^{th}$ August 2021.

(21) Delivered an Invited lecture on "Dimensional analysis and Non-dimensionalization" in one day webinar on "New Research Trends in Mathematical Sciences" organized by Department of Mathematics, Academy of Maritime Education and Training, on $13^{th}$ February 2021.

(22) Chaired session in "$26^{th}$ International Conference of International Academy of Physical Sciences" on "Convergence of Computing, Statistics and Operations Research-Empowering Youth for Sustainable Future" organized by Vijayanagara Sri Krishnadevaraya University, Jnanasagara campus, Bellari, on $18^{th} - 20^{th}$ December 2020.

(23) Delivered an Invited lecture on "Introduction to Finite Difference Methods and Applications" in online one week short term course on "MATLAB Applications for Applied Science and Engineering Problems" organized by UGC- Human Resource Development Centre, Hyderabad, on $19^{th}$ October 2020.

(24) Delivered an Invited lecture on "Governing Equations of Fluid Mechanics" in five days webinar on "Mathematical Modelling and Numerical Techniques in Fluid Mechanics" organized by Department of Mechanical Engineering and Department of Mathematics, ISTE, New Delhi, on $17^{th} - 21^{st}$ August 2020.

(25) Presented webinar on "Applications of Fluid Mechanics in Engineering and Technology" organized by Department of Mathematics, Chaitanya Bharathi Institute of Technology, Gandipet, on $27^{th}$ July 2020.

(26) Delivered an Invited lecture on "Basic Equations of Fluid Mechanics and their Interpretations" in four days National webinar on "Fluid Mechanics and its Applications in Engineering Science" organized by Department of Mathematics, PESITM, on $24^{th} - 27^{th}$ June 2020.

(27) Presented webinar on "Applications of Differential Equations" organized by Department of Mathematics, Cambridge Institute of Technology North Campus, Kundana, Bengaluru, on $19^{th}$ June 2020.

(28) Delivered an Invited lecture on "Dimensional analysis and Non-dimensionalization" in two days "International Conference on Mathematics and its Applications (ICMA

2020)" organized by Department of Mathematics, Bangalore University, Bangalore on $28^{th} - 29^{th}$ February 2020.

(29) Delivered an Invited lecture on "Mathematical Modelling" in two days "National Conference on Recent Advances in Mathematics and its Industrial Applications" organized by Acharya Nagarjuna University, Ongole (A.P.) held during $6^{th} - 7^{th}$ February 2020.

(30) Delivered an Invited lecture on "Mathematical Modelling" in two days Special Lectures series on "Partial Differential Equations and its Applications", organized by Department Post-Graduate Studies and Research in Mathematics, Mangalore University, Mangalagangothri, Karnataka on $16^{th} - 18^{th}$ January 2020.

(31) Delivered an Invited lecture on "Heat Transfer through Fins" in two days "National Conference on Recent Trends in Mathematics and its Industrial Applications" organized by Department of Mathematics, GITAM School of Sciences, Bengaluru held during $20^{th} - 21^{st}$ December 2019.

(32) Delivered an Invited lecture on"Recent Developments on Industrial Applications of Mathematics" in two days "National symposium on Pure and Applied Mathematics (NSPAM 2019)", organized by Department of Mathematics, KLS Institute of Management Education and Research, Belagavi on $10^{th} - 11^{th}$ December 2019.

(33) Delivered an Invited lecture on "Mathematical Modelling" in one day Student Training Program on "Application of Mathematics in Engineering in Real World Problems" on $13^{th}$ November 2019 organized by Departments of Mathematics and Electrical and Electronics Engineering, Malnad College of Engineering, Hassan.

(34) Delivered an Invited lecture on "Applications of Fins" in two days "National Conference on Recent Trends in Applied Sciences and Computing Engineering (NCRTASCE 2019)" organized by Department of Mathematics, Jawaharlal Nehru National College of Engineering, Shivamogga on $26^{th} - 27^{th}$ July 2019.

(35) Delivered an Invited lecture on "Heat Transfer through Fins" in one day National Seminar on "Recent Trends and Applications in Mathematics" on $26^{th}$ March 2019 organized by Department of Mathematics, Government Science College, Chitradurga.

(36) Delivered an Invited lecture on "Fins and its Applications" in one-day seminar on "Applications of Mathematics" organized by the Department of Mathematics, Govt. Science College, Chitradurga, on $9^{th}$ March 2019.

(37) Participated in UGC sponsored Short Term Course on 'e-Learning and ICT for Teaching and Learning' organized by Jawaharlal Nehru Technological University Hyderabad from $30^{th}$ July to $4^{th}$ August 2018.

(38) Participated in UGC sponsored Short Term Course on 'Communication Skills and Computer Applications' organized by Bangalore University from $27^{th}$ February to $4^{th}$ March 2017.

(39) "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 $14^{th}$ september 2013.

(40) "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-$4^{th}$ of August 2013.

(41) " Three dimensional Coutte flow of an unsteady dusty fluid and heat transfer" presented in international conference on Mathematics held on 9-$10^{th}$ of August 2013 in Kerala.

(42) " Stagnation point flow of a MHD dusty fluid towards a stretching sheet with radiation" presented at GFGC, Koppa, held on $9^{th}$ March 2013.

(43) "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-$5^{th}$ May 2012 organized by Department of Mathematics, Kuvempu University, Shankaraghatta.

(44) "Prepared a model in Kuvempu University Silver jubilee Exhibition", held on 16-$19^{th}$ Feb 2012 organized by Committee for Popularization of Science Education, Kuvempu University, Shankaraghatta.

(45) "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-$24^{th}$ Dec 2011 organized by Sardar Vallabhbhai National Institute of Technology, Surat.

(46) 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 -$28^{th}$ May 2011.

(47) 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$^{th}$ April 2011.

(48) "Three-Dimensional Couette Flow of a Dusty Fluid with Heat Transfer", Presented at National Conference on 'Advances in Mathematical Sciences' held on 28-29$^{th}$ March 2011 organized by Department of Mathematics, Sri Venkateshwara University, Tirupati.

(49) Attended in Refresher Course held on 2-22$^{nd}$ September 2010 in University of Hyderabad, Hyderabad.

(50) Two days workshop on "Vision group of Mathematics and Computer Science" held on 19-20$^{th}$ March 2010 organized by Department of Mathematics, Kuvempu University, SHIMOGA.

(51) Attended two day training programme on "Computer Concepts, Operating System & Internet" Conducted by Instrumentation Maintenance Facility Centre, Kuvempu University, SHIMOGA, During 3-4$^{th}$ Dec 2009.

(52) "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$^{rd}$ October 2009 organized by The Tensor Society, Swargashram, RISHIKESH.

(53) "3D Coutte 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$^{st}$ Aug to 2$^{nd}$ Sep 2009 organized by aegis of UGC Centre for Advanced Studies in Fluid Mechanics, Bangalore University, BANGALORE

(54) 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$^{th}$ Dec 2008 to 14th Dec 2008.

(55) One day seminar on "Recent trends in Mathematics" held on 5$^{th}$ May 2008 organized by Department of Mathematics, Kuvempu University, SHIMOGA.

(56) "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$^{nd}$ December 2007 organized by Department of Mathematics, Statistics and Computer Science, G.B.Pant University, UTTARA KHAND.

(57) Attended UGC Sponsored Orientation programme during 11th June to $7^{th}$ July 2007, Academic Staff College Bangalore University, BANGALORE.

(58) Attended one day workshop on 'Recent developments in mathematics' held on $30^{th}$ March 2007 organized by Department of Mathematics, Govt. Science College, BANGALORE.

(59) Attended one day Seminar on mathematics, Govt. Science College, held during $10^{th}$ March 2007, CHITRADURGA.

(60) "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-$24^{th}$ Feb 2007 organized by Department of Mathematics, Bangalore University, BANGALORE.

(61) Attended UGC Sponsored Three days Training programme in "Computer Hardware & Networking" during 10 to $12^{th}$ Oct 2006, IMF Centre, Kuvempu University, SHIMOGA.

(62) Attended one day workshop on "Recent trends in electronic instrumentation" Organized by Department of Electronics, Kuvempu University, SHIMOGA, During $25^{th}$ April 2006.

(63) "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-$22^{th}$ Jan 2005.

(64) "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-$11^{th}$ Dec 2004.

(65) "The National Instructional Workshop on Industrial Mathematics" organized by Department of Applied Mathematics, MS University of Baroda, during 1-$7^{th}$ December 2003. VADODARA.

(66) "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-$7^{th}$, 2003, KOLKATTA.

(67) "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.

(68) "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$^{th}$ September 2002, GULBARGA.

(69) Attended the First DST-SERC School on "Mathematical Modeling of Atmospheric Pollution" held during May 15$^{th}$-June 16$^{th}$, 2001 organized by UGC-DSA Programme, Department of Mathematics, Bangalore University. BANGALORE.

(70) The National Seminar on "Challenges of Mathematics in 21st Century" held during 3-4$^{th}$ February 2001 organized by Department of Mathematics, Mysore University, MYSORE.

(71) International Conference on "Geometry, Analysis, Fluid Mechanics and their applications" held on 15-17$^{th}$ Jan 2000 organized by Department of Mathematics, Kuvempu University, SHIMOGA.

**SPECIAL LECTURE DELIVERED:**

(1) Invited as a guest speaker for the event "Transforming Mathematics with Syntax-Free Innovation" organized by Binary Sematics on 14$^{th}$ March 2023.

(2) Delivered an Invited lecture on "Gravitational Waves" on "National science Day" organized by Department of Mathematics, Sahyadri Science College, Shimoga, on 28$^{th}$ February 2023.

(3) Delivered a Invited lecture on 'Real Word Applications of Mathematics' organized by the department of Mathematics, Siddharth University, Kapilvastu 24$^{th}$ of December 2022.

(4) Delivered an Invited lecture on "New Similarity Transformation Impact on Results of Two Dimensional Convection Boundary Layer Flow of an Incompressible Fluid over a Stretching Sheet" on "National Mathematics Day" Organized by Department of Mathematics, Vishwakarma University,Kondhwa , Pune, 22$^{nd}$ December 2022.

(5) Delivered a Invited lecture on 'Partial Differential Equations' at a Refresher Course in "Mathematical Sciences and its Applications" organized by UGC, HRDC, Osmania University, Hyderabad during 17-31$^{st}$ of October 2022.

(6) Delivered an Invited lecture on 'Partial Differential Equations' at a Refresher Course in "Mathematical Modeling and Recent Computational Techniques" organized by Department of Mathematics, Sreenidhi Institute of Science and Technology, in association with Center for Continuing Education, NIT-WARANGAL during 17$^{th}$ to 21$^{st}$ of October 2022.

(7) Delivered an Invited lecture on 'Heat transfer through fins' at International Conference on 'Mathematics and its Applications (ICMA-2020)' organized by Bangalore University, Karnataka during 28-29$^{th}$ of February 2020.

(8) Delivered a Invited lecture on 'Heat transfer through fins' at National Conference on 'Recent Advances in Mathematics and its Industrial Applications' organized by Acharya Nagarjuna University, Ongole (A.P.) during 6-7$^{th}$ of February 2020.

(9) Delivered a Invited lecture on 'Heat transfer analysis' at National Symposium on 'Pure and Applied Mathematics' organized by Rani Channamma University, Belagavi, on $10 - 11^{th}$ December 2019.

(10) 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$^{th}$ March 2019.

(11) 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 $27 - 28^{th}$ Febrauary 2019.

(12) 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$^{th}$ Febrauary 2019.

(13) 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 $21 - 25^{th}$ January 2019.

(14) 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 $11 - 12^{th}$ January 2019.

(15) 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 $21 - 22^{nd}$ December 2018.

(16) 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 $28 - 29^{th}$ March 2018.

(17) Delivered a Invited lecture on 'Dimensional analysis and Nondimensionalization' in national conference organized by Department of Mathematics, Karnataka University, Dharwad on $9 - 10^{th}$ March 2018.

(18) 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 $28^{th}$ February 2018.

(19) Delivered a Invited lecture on 'Applications of Mathematics in Real world problems' in Special Lecture Series held at Mahajana First Grade College, Mysore on $28^{th}$ February 2018.

(20) Delivered a lecture on 'Latex program manipulation' MES College, Chikkamangalore on $3^{rd}$ February 2018.

(21) 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 $29^{th}$ January 2018.

(22) 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-$2^{nd}$ December 2017.

(23) 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 $9^{th}$ October 2017.

(24) Delivered an 'Inspire Lecture' to the SSLC exam top scored students and for teachers organized by Department of School Education, Chitradurga on $23^{rd}$ August 2017.

(25) 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 $14^{th}$-$16^{th}$ July 2017.

(26) Delivered a talk on 'Nonlinear Differential Equations, MATLAB and MAPLE Programming' in Faculty Development Programme held at Department of Mathematics, JNNCE, Shimoga, on $28^{th}$ and $29^{th}$ June 2017.

(27) 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 $21^{st}$ and $22^{nd}$ April 2017.

(28) Delivered a talk on 'Easy Techniques for Enhancing students understanding' in a workshop organized by Jnanasagara Central School, Shivamogga for teachers on $4^{th}$ April 2017.

(29) Delivered a talk on 'Gravitational waves' in State level seminar on 'Advances in Mathematics and its Application' held at Sahyadri Science College, Shimoga on $24^{th}$ March 2017.

(30) 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 $23^{rd}$ and $24^{th}$ December 2016.

(31) Delivered a special lecture on 'Differential Equations and its Applications' held at Smt. Indiragandhi G.F.W.C. and P.G. Center, Sagar on $12^{th}$ November 2016.

(32) 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 $3^{rd}$ October 2016.

(33) 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 $1^{st}$ October 2016.

(34) Invited talk on 'Research Opportunities in Mathematics' in One day Workshop organized by U.G. Department of Mathematics, Alva's College, Moodbidri held on $2^{nd}$ September 2016.

(35) Invited talk on 'Heat Transfer Analysis Through Fins' in National Conference on "An Insight into Analysis and Applications of Mathematics" held on $24^{th}$ August 2016, at National College, Jayanagar, Bangalore.

(36) 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 $3^{rd}$ and $4^{th}$ August 2016 at Karnatak University, Dharwad.

(37) Invited talk on 'Foundations of Mathematics' in the programme of Interaction with Scientists held on July $31^{th}$ at Mysore Science Foundation(R), Regional Museum of Natural History, Siddharthanagar, Mysore.

(38) Invited talk on 'Heat Transfer Through Fins' in National Conference on "Recent Advances in Mathematics and Their Applications (NCRAFM-2016)" held on May 30-$31^{st}$ at Department of Mathematics, Osmania University , Hyderabad-500007.

(39) Invited talk on 'Heat Transfer Through Fins' in Seminar, held on 26th March 2016 at Department of Physics, Govt. first Grade College, Holenarasipura.

(40) 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 $4^{th}$ and $5^{th}$ March 2016 at Department of Mathematics, Govt. first Grade College, Koppa.

(41) "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 $18^{th}$ and $19^{th}$ February 2016, at JSS college of Arts, Commerce and Science, Ooty road, Mysuru.

(42) 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, Hydrabad, Telangana state on 8-$10^{th}$, December 2014.

(43) 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-$18^{th}$ October 2014.

(44) Lecture delivered on 'Basic History and Application of Mathematics', Govt. Science College, Nyamathi, Davanagere Dist. held on $17^{th}$ of September 2014.

(45) 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-$27^{th}$ August 2014.

(46) 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-$26^{th}$ July 2014.

(47) Delivered a special lecture in Department of Mathematics, Davangere University, Davanagere on 21-$22^{nd}$ April 2014.

(48) Lecture delivered on 'Application of Mathematics', Govt. Science College, Shimoga, held on $14^{th}$ of March 2014.

(49) Lecture delivered on 'Application of Mathematics', Govt. Science College, Chitradurga, held on $10^{th}$ of March 2014.

(50) Invited talk on 'Effect of Suspended Particles on Nanofluid flow', in the UGC sponsered one day National seminar on Recent Advances in Mathematics and their Implications, organised by Departmentof Mathematics D.R.M.Science College, Davangere, on $8^{th}$ of March 2014.

(51) 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-$7^{th}$ of March 2014.

(52) 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-$21^{st}$ September 2013.

(53) 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 $14^{th}$ september 2013.

(54) 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-$4^{th}$ of August 2013.

(55) Lecture delivered on 'Joy of Mathematics', Govt. First Grade College, held during $23^{rd}$ March 2013, Hosanagara.

(56) Lecture delivered on 'Application of Mathematics', Govt. First Grade College, held during $1^{st}$ September 2012, Chitaguppa.

(57) Lecture delivered on 'Introduction to Matlab', Govt. First Grade College, held during $26^{st}$ August 2012, Hassan.

(58) Lecture delivered on 'Introduction to Latex and Matlab', UGC-Academic Staff College, Karnatak University, held during 10th & 11th July 2012, Dharwad.

(59) Lecture delivered on 'History & Applications of Mathematics', held during 17-$22^{th}$ June 2012, CHIKKODI.

(60) Lecture delivered on 'On Hartmann flow', Department of Mathematics, Davangere University, held during $23^{th}$ May 2012, DAVANAGERE.

(61) Lecture delivered on 'History & Mathematical Modeling', S.J.M Arts, Science and Commerce College, held during $29^{th}$ February 2012, CHITRADURGA.

(62) Lecture delivered on 'History & Applications of Mathematics', Vedavathi Govt First Grade College, held during $14^{th}$ January 2012, HIRIYUR.

(63) Lecture delivered on 'History & Applications of Mathematics', Govt First Grade Women's College, held during $28^{th}$ January 2012, Sagar.

(64) Lecture delivered on 'Mathematics & it's importance', workshop for high school teacher, Kuvempu University, held during $22^{nd}$ November 2011, SHIMOGA.

(65) Lecture delivered 'On Ramanujan', Govt. First Grade Women College, held during $19^{th}$ September 2011, SAGAR.

(66) 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 -$27^{th}$ July 2011.

(67) Lecture delivered on 'A Brief History & Problem solving techniques', Govt. First Grade College, held during $15^{th}$ March 2011, Thirthahalli.

(68) Lecture delivered on 'A Brief History & Problem solving techniques', Govt. First Grade College, held during $11^{th}$ March 2011, HOSADURGA.

(69) Lecture delivered on 'National Eligibility Test Preparations', L.B.College, held during $15^{th}$ December 2010, SAGAR.

(70) Lecture delivered on 'A Brief History & Applications of Mathematics', Govt. First Grade College, held during $18^{th}$ October 2010, SAGAR.

(71) Lecture delivered on 'History of Mathematics', Govt. First Grade College for Women's, held during $23^{th}$ April 2010, HASSAN.

(72) Lecture delivered on 'Applications of Numerical methods', DVS college, held during $27^{th}$ March 2010, SHIMOGA.

(73) Lecture delivered on 'Applications of Numerical methods in Engineering', Department of Applied Sciences(SIET), held during $6^{th}$ March 2010, TUMKUR.

(74) Deliver Invited talks on 'Mathematical Modelings & Laplace Transform', Walchand College of Arts and Science, held during 3-$4^{th}$ Aug 2009, SOLAPUR.

(75) Lecture delivered on 'Problem solving techniques & Applications of Mathematics' in seminar held at Sahyadri Science College, during $14^{th}$ March 2008, SHIMOGA.

(76) Lecture delivered on 'Mathematical Modeling in Seminar', Govt. Science College, held during $10^{th}$ March 2007, CHITRADURGA.

(77) Lecture delivered on 'Applications of Mathematics in Industries', Sri Shivalingeshwara Govt. Science College, held during $9^{th}$ March 2007, CHANNAGIRI.

(78) Lecture delivered on 'Mathematical Modeling' at Workshop for PU College Teachers held during $15^{th}$ November 2005, CHITRADURGA.

## INSTITUTIONAL GOVERNANCE RESPONSIBILITY:

(1) Working as a Research and Development Director from 4th December 2023 to till date.
(2) Worked as Deputy Registrar(Evaluation) in Kuvempu University from November 2020-January 2022.
(3) Worked as Deputy Director PMEB, Kuvempu University from February 2017-March 2023.
(4) Worked as Faculty Advisor for boys Hostel from August 2011- August 2014.
(5) Worked as a L I C Member in Kuvempu University
(6) Worked as a L I C Member in Gulbarga University
(7) Worked as an Editorial Board Member in preparing Annual Report of Kuvempu University for the year 2011-2014
(8) Member for popularization of Science and Technology, Kuvempu University
(9) Organizing Committee member for conference of Syndicate Members of all universities held in Kuvempu University
(10) Member in convocation committee, Kuvempu University
(11) Worked as Special stock verification member, Kuvempu University
(12) Member in Admission Committee, Kuvempu University
(13) Enquiry Committee against Hostel Workers, Kuvempu University, 2012

(**B.J.Gireesha**)