



Dr Mahadev M Biradar

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Date of Birth: 20/04/1978

Academic Qualifications:

1. Ph.D. (2008) in Mathematics, Gulbarga University, Kalburgi, Karnataka. Title: "Convection heat transfer of immiscible fluid in a vertical channel "
2. M.Phil. (2004) in Mathematics, Gulbarga University, Kalburgi, Karnataka. Title: " Two Fluid Magneto convection in a Vertical Enclosure "
3. M.Sc. (2002) in Mathematics, Gulbarga University, Kalburgi, Karnataka. Specialization: Fluid Dynamics and Computer Aided Geometric Design
4. B.Sc.(1999) in Mathematics, Gulbarga University, Kalburgi, Karnataka. Specialization: Fluid Dynamics and Computer Aided Geometric Design

Teaching Experience:

1. Associate Professor at Department of Mathematics Basaveshwar Engineering College, Bagalkot 23.03. 2009 to till date.
2. Lecturer, at Department of Mathematics Guru Nanak Dev Engg. College Bidar from Sept. 2005 to March 2009
3. Lecturer, at Department of Applied Science Govt. Tool Room and Training Centre Santraswadi, Gulbarga from March 2002 to August 2005

RESEARCH AREAS

These areas include

- Multiphase Fluid-Particle Dynamics
- Transport in Porous Media
- Heat and Mass Transfer
- Magneto hydrodynamics
- Convection
- Wavy Wall
- Stretching Sheet
- Heat generation/absorption
- Micropolar

Patent:

1. Ai - Powered intelligent financial management system for autonomous cost application, patent no. 202141036930 in engineering and technology, filed 2021-08-15, published 2021-08-20.
2. Vehicle dynamics analysis and optimization of electric all terrain patent no. 202111038638 in engineering and technology, filed 2021-08-26, published 2021-09-03.
3. A smart stick solution for assisting blind people using internet of things, patent no. 202121042381, in medical and health sciences, filed 2021-09-19, published 2021-10-29

Research Publications:

1. *Multiple slip effects of MHD boundary-layer motion of a Casson nanoliquid over a penetrable linearly stretching sheet embedded in non-Darcian porous medium*, Patil Priyanka, Shaimaa AM Abdelmohsen, Jagadish V Tawade, Abdelbacki MM Ashraf, Raman Kumar, **Mahadev M Biradar**, published on 2022/9/15, **Journal International Journal of Modern Physics B**, Publisher World Scientific Publishing Company.
2. Effects of the Magnetohydrodynamic Flow within the Boundary Layer of a Jeffery Fluid in a Porous Medium over a Shrinking/Stretching Sheet, Shaila S. Benal, Jagadish V. Tawade, **Mahadev M. Biradar**, and Haiter Lenin Allasi, **Hindawi Mathematical Problems in Engineering**, Volume **2022** | Article ID 7326504 | <https://doi.org/10.1155/2022/7326504>
3. *The effects of MHD radiating and non-uniform heat source/sink with heating on the momentum and heat transfer of Eyring-Powell fluid over a stretching*, Bharatkumar Manvi, Jagadish Tawade, **Mahadev Biradar**, Samad Noeiaghdam, Unai Fernandez-Gamiz, Vedyappan Govindan, Results in Engineering, Volume 14, **June 2022**.
4. Influence of Radiant Heat and Non-uniform Heat Source on MHD Casson Fluid Flow of Thin Liquid Film Beyond a Stretching Sheet”, Jagadish V Tawade, **Mahadev Biradar**, Shaila S. Benal, Recent Trends in Mathematical Modeling and High Performance Computing pp 23–36, **2021**.
5. *Mixed Convective Flow With Variable Viscosity And Variable Thermal Conductivity In A Channel In The Presence Of First Order Chemical Reaction With Heat Generation Or Absorption*”, Shobha K C, **Mahadev Biradar**, Patil Mallikarjun B Journal of Applied Mathematics and Computational Mechanics **2021**, 20(1), 91-102, DOI: 10.17512/jamcm.2021.1.09, p-ISSN 2299-9965, e-ISSN 2353-0588.
6. *Effect of Non uniform heat source/sink for the Casson nano fluid in presence of viscous dissipation over the porous stretching sheet*”, Shravan B Kerur, Jagadish V Tawade, **Mahadev Biradar**, Bharatkumar K Journal of Engineering Sciences, ISSN: 0377-9254, UGC Care Approved Group II Journal, Volume 11, Year **2020**, Pages 114-126.

7. *Radiation effects on heat transfer of MHD Casson nano fluid flow over a porous stretching sheet in presence of Non uniform heat source/sink*", Jagadish V Tawade, Shravankumar B Kerur, **Mahadev Biradar**, Journal of information and computational science, UGC-Care Group-II, ISSN NO: 1548-7741, Volume 10, Year **2020**, Pages 64-78
8. Non-uniform heat source/sink and thermal radiation effects on liquid film flow of casson fluid thin film over a stretching sheet", Jagadish V Tawade, **Mahadev M Biradar**, Dakshayani N, Journal of Engineering Sciences, ISSN:0377-9254, UGC Care Approved Group II, Volume 11, Year 2020, Pages 260-270.
9. A new approach of MHD flows for UCM fluid over a permeable moving plate with space and temperature dependent internal heat generation/absorption", JagadishVaijinathTawade, **Mahadev Mallikarjun Biradar**, ShailaSangangoudaBenal AIP Conference Proceedings, Volume 2236, Year 2020, Pages
10. Flow and Heat Transfer of Micropolar and Viscous Fluid with Source or Sink in A Vertical Channel", **Mahadev M Biradar** International Journal on Emerging Technologies, Volume 6, Year 2015, Pages 253.
11. Two fluid electromagneto convective flow and heat transfer between vertical wavy wall and a parallel flat wall", **Mahadev M Biradar** International Journal Of Advanced Research In Engineering And Technology (IJARET, Volume 6(4), Year 2015, Pages 86-106
12. Magneto-Convective Flowand Heat Transfer Of Two Immiscible Fluids Between Vertical Wavy Wall And A Parallel Flat Wall", **Mahadev M Biradar** "International Journal of Research in Engineering and Technology , Volume 3, Year 2014, Pages 777-790
13. Flow And Heat Transfer Of Micro Polar And Viscous Fluid In A Vertical Channel", **Mahadev M Biradar**, International Journal of Research in Engineering and Technology, Volume 3, Year 2014, Pages 771-776
14. Two Fluid Convective Flow And Heat Transfer Between Vertical Wavy Wall And A Parallel Flat Wall", **Mahadev M Biradar**, JagadishTawade IJCAE, Volume 4, Year 2013, Pages 144-163
15. Convective Flow And Heat Transfer Of Composite Porous Medium Between Vertical Wavy Wall And A Parallel Flat Wall", **Mahadev M Biradar** IJCAE, Volume 4, Year 2013, Pages 118-133
16. Two fluid magneto convection in a vertical enclosure", Umavathi, J. C, Kumar, J. Prathap, **Biradar Mahadev Mallikarjun**, Modelling, Measurement and Control B, Volume 74, Year 2005, Pages 1-18

National & International Conferences/workshop/STTP/Invited Talk

1. Attended the webinar on “Role of faculty in implemetation of NEP” organized by Bharatiy shikshan Mandal and Niti Aayog with Basaveshwar Engineering College, Bagalkot on 20th February 2021.
2. Published a book chapter “Effect of work done by Deformation and Non-uniform Heat source/sink on flow and heat transfer of mind viscoelastic fluid over a stretching sheet” in the book entitled “ANALYSIS OF MATHEMATICAL SCIENCES AND IT’S APPLICATIONS”
3. Participated in the TEQIP-III sponsored e-training Faculty Development Programme (FDP) on “Mathematical Approaches in Mechanics” during December 24-31, 2020(Six Days) organized by Department of Mathematics, IIT Indore.
4. Attended three days short term course on “Mathematics and its Importance in Engineering” organized by Department of Mathematics, National Institute of Engineering, Mysuru, during 25th to 27th November 2020.
5. Participated in the TEQIP-III sponsored e-training Faculty Development Programme (FDP) on “Mathematics with MATLAB and Mathematica” during November 23-28, 2020(Six Days) organized by Department of Mathematics, IIT Indore.
6. Participated in National Webinar on “Statistics and its Applications” organized by Department of Mathematics, Maharshi Dayanand University Rohtak, through online MDU WebEx platform on 20 October 2020 to celebrate World Statistics Day.
7. Attended the online seminar on “Role of Mathematics in Engineering,Science and Technology” organized by Department of Mathematics and Statistics, Manipal University Jaipur, India on 15th october 2020.
8. Completed 300 hours Teacher training of Ashtang Yoga from Patanjali Yogapeeth and passed successfully with A grade on 10th October 2020.
9. Attended AICTE sponsored one week short term training program on “Mathematica-A Scientific Research Tool” organized by Sagar Institute of Research & Technology, Bhopal during 21st to 26th September 2020.
10. Participated in the national Webinar on “Mathematical Modelling in Trans-Disciplinary Research on Basic Science” organized by Department of Mathematics, KLE Society’s S Nijalingappa College, Bengaluru on 26th and 27th August 2020.

11. Participated in the GeoGebra 5.04 training organized at Govt School by Sonalika Beohar, under Spoken Tutorial Project, IIT Bombay. July 1st 2020.
12. Attended two days' Workshop on "AICTE Examination Reform Policy" organized by TEQIP-III, Basaveshwar Engineering College, Bagalkot on 14th and 15th June 2020.
13. Attended faculty development program "Dealing with differential equations and PDE's" organized by Binary Semantics Maple Software on 8th June 2020.
14. Participated in National Webinar on "Unlocking the Lockdown Through E-Examination" through video conferencing hosted by IET, Dr Rammanohar Lohia Avadh University, Ayodhya, on 20 April, 2020.
15. Participated in the workshop on "Mathematical Tools for Boundary value Problems and Applications " organized by Department of Mathematics, Indian Institute of Technology Kharagpur, during March 9-13, 2020.
16. Two week course on "Digital Transformation in Teaching Learning Process" February 14th to March 6th, 2020 organized by IIT Bombay under TEQIP-3.
17. Participated and presented a paper Title "MHD Casson-Nano Fluid with Non-Uniform Heat Source/Sink and viscous Dissipation" in the 3rd International Conference on "Modern Mathematical Methods and High Performance computing in Science&Technology (M3HPCST-2020) organized by Inderprastha Engineering College, Ghaziabad, India on January 9th to 11th 2020.
18. Participated in one day workshop on "Publishing research in High Quality Journals" organized by Department of Management Studies, Basaveshwar Engineering College, Bagalkot on 19th December 2019.
19. Participated in the NPTEL Workshop conducted on 29th Nov 2019 by IIT Madras at Basaveshwar Engineering College, Bagalkot.
20. Participated and successfully completed One-Week Faculty Development Programme on "Research Avenues in Information Technology" from 3rd to 7th June 2019, organized by Department of Computer Science & Information Science Engineering, Basaveshwar Engineering College, Bagalkot under TEQIP-III.
21. Participated in STEP 2018, a National Conclave (Prabudva Bharat) held at VTU Belagavi, on December 1 and 2, 2018.
22. Participated in 21st ISTE State Level Faculty Convention-2018 and 29th Dr L S Chandrakanth Memorial Lecture Series on "Challenges and Opportunities in Engineering Education in India" held on 3rd November 2018 at BKIT Bhalki Karnataka.

- 23.** Attended three days' workshop under TEQIP-III on Development "Positive Attitude towards Institutional Work & Life" conducted by Saitej Life Training Institute, Venue: Valvan Village Resort, Lonavala, Pune (Maharashtra) organized by NPIU Govt of India during 12th and 14th October 2018.
- 24.** Participated in one day Management Development Programme on "Academic Leadership through Emotional Intelligence" organized by Department of Management Studies, Basaveshwar Engineering College, Bagalkot on 15th June 2018.
- 25.** Attended the workshop on "New Model Curriculum for first year BE/B Tech-CBCS detailed syllabus (2018-19 as per Outcome-Based Education (OBE) format including course outcomes (CO) and Bloom Taxonomy" under TEQIP-1.3 held on 17th May 2018 at VTU Belagavi
- 26.** Resource person for delivering a Special Lecture arranged by Mathematical Association at KLE Society's Shri Kadasiddheshwar Arts College H S Kotambari Science Institute, Vidyanagar Hubli on 06th February 2016.
- 27.** Attended workshop on "OUTCOME BASED EDUCATION" organized UNDER TEQIP-II of World Bank on 18th December 2015 at BEC Bagalkot.
- 28.** Participated and presented a paper in the Second National Conference on "Recent Innovations in Engineering and Technology (NCRIET- 2015) 7th and 8th November 2015 held at BKIT Bhalki Karnataka.
- 29.** Attended STTP on "Symbolic computing and Numerical programming using Mathematica/Matlab Organized by Dept. of Mathematics, NIT Warangal during July 10-12, 2015.
- 30.** Participated and presented a paper in the 4th International Science Congress (ISC-2014) on 8th and 9th December 2014 held at Pacific University, Udaipur, Rajasthan, India.
- 31.** Participated and presented a paper in the National Conference on "Recent Innovations in Engineering and Technology (NCRIET- 2014) 3rd and 4th May 2014 at BKIT Bhalki Karnataka.
- 32.** Participated in the Two day workshop on "Effective leadership for Excellence" organized by International Academy for competency Enhancement, Bangalore from 8th Feb to 9th Feb 2014.
- 33.** Participated in TEQIP-II Sponsored Three days Faculty Development Programme from 10th – 12th July 2013 Organized by Dept. of Electronics and Communication Engg. at BEC Bagalkot.

34. Participated in TEQIP-II Sponsored Three days FDP on “Soft and Evolutionary computing Techniques and its Applications” from 30th May- 1st June 2013 Organized by Dept. of Electronics and Communication Engg. at BEC Bagalkot.
35. Participated and presented a paper in the National Conference on “Recent Trends in Management and Technology (NCMT 2013)” 5th and 6th April 2013 at BKIT Bhalki Karnataka.
36. Attended “Ramanujan Mathematics Awareness programme (RMAP-2013)” ISTE Students and Faculty chapter, BIET and Sponsored by Indian Society for Technical Education, New Delhi. Held on 1st March 2013, at Bapuji Institute of Engg. and Technology, Davangere, organized by Dept. of Mathematics,
37. Attended Two day National level faculty programme on “Innovative Ideas of Teaching and Learning Skills” (FDP- IITLS) organized by Dept. of Applied Science and Humanities held at BKIT Bhalki on 23rd and 24th Feb 2013.
38. Participated and presented a paper in the 100th Indian Science congress held at Calcutta University, Kolkata from Jan 3rd to 7th 2013.
39. Resource person for PGCET coaching held at Department of Computer Applications (MCA) BEC Bagalkot on 14th July 2012
40. Resource person for PGCET coaching held at Department of Computer Applications (MCA) BEC Bagalkot on 18th July 2011.
41. Participated and presented a paper in the National Conference on “Frontiers in fluid Mechanics” Department of Mathematics, sponsored by UGC New Delhi under the Special Assistance Programme at Gulbarga University, Gulbarga. 22nd and 23rd February 2011.
42. Participated in National work shop on Scilab, Latex and other free open source software, at Bhaskaracharya Pratishthana, Pune held from 27th September to 1st October 2010, the workshop was funded by (MHRD) Govt of India.
43. Invited talk on Integration and its applications at Basaveshwar Science College, Bagalkot on 21st April 2010
44. One day workshop on “Fine Tuning of syllabus of Engineering Mathematics” organized by VTU Belgaum at HKE’s SLN Engineering College, Raichur on 29-03-2010.
45. Participated and presented a paper in the National Symposium on Recent Advances in Applied Mathematics, Department of Mathematics, Gulbarga University, and Gulbarga. 8- 9th February, 2010.

46. Attended faculty development programme on “Recent Development in Tribology of Mechanical Systems”, Department of Industrial Production and Engineering, Basaveshwar Engineering College, Bagalkot, 18th –22nd December 2009.
47. Participated and presented a paper in the International Conference on “Frontiers in Fluid Mechanics” UGC-CAS in Fluid Mechanics, Department of Mathematics, Bangalore University, Bangalore, 26-28, October 2006.
48. Participated and presented a paper in the International National Conference on Applied Mathematics, Department of Mathematics sponsored by UGC New Delhi under the Special Assistance Programme DRS at, Gulbarga University, Gulbarga, 7th and 8th February 2006.
49. Participated and presented a paper in the International Conference on “Advances in Applied Mathematics” Department of Mathematics, sponsored by UGC New Delhi under the Special Assistance Programme at Gulbarga University, Gulbarga. 24th to 26th February 2005.
50. Participated and presented a paper in the National Seminar on “Fluid Mechanics its Applications to Science and Technology” Department of Mathematics, Sponsored by UGC (DRS) Osmania University, Hyderabad. 9-10 February 2005.
51. Participated in the International Symposium On “Advances in Fluid Mechanics” held on 21-22 June 2004 at UGC-CAS in Fluid Mechanics Department of Mathematics, Bangalore University, Bangalore-1
52. Participated in the National Conference on “Advances in Fluid Mechanics” Department of Mathematics, sponsored by UGC New Delhi under the Special Assistance Programme at Gulbarga University, Gulbarga. 5th and 6th February, 2004.
53. Participated in the National Seminar on “Recent Advances in Fluid Mechanics” Department of Mathematics, sponsored by UGC New Delhi under the Special Assistance Programme at Gulbarga University, Gulbarga. 11th and 12th September, 2002.
54. Attended Orientation Programme on “Entrepreneurship Development and Implementation of DEBM Programme jointly organized by Entrepreneurship Development Institute of India and BVVS held at BEC Bagalkot.

Workshop Organized:

Organized a National level Workshop on “GeoGebra: Dynamic Mathematics made easy and Programming with Scilab”, from 28-29, December 2013.

Additional Certificate:

- NCC “B & C” Certificate with Rank Sr CUO Army wing 32 KAR BN Gulbarga.
- QEEE appreciation certificate.
- Award of “University Research Studentship” to meritorious scholars.
- Attended the Combined Annual training Camp for NCC at Manik Public School, Manik Nagar by 32 KAR Bn NCC Gulbarga from 11.10.97 to 22.10.97.
- Attended the Combined Annual training Camp for NCC at Bijapur by 36 KAR BnNCC from 21.07.98 to 01.08.98.
- Attended the Combined Annual training Camp for NCC at Manik Public School, Manik Nagar by 32 KAR Bn NCC Gulbarga from 05.10.98 to 16.10.98.

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