




DAYANANDA SAGAR ACADEMY OF TECHNOLOGY AND MANAGEMENT

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)

Opp. Art of Living, Udayapura, Kanakapura Road, Bangalore- 560082

DEPARTMENT OF MATHEMATICS

Accredited NBA, NAAC with A+, New Delhi

Faculty Name	Dr. BHAVYA SHIVARAJ	
Academic Designation	Assistant Professor	
Educational Qualification	B.Sc., M. Sc., M. Phil., Ph.D.	
Experience in Years	14	
Area of Interest	Fluid Mechanics-Electroconvection, Dielectric fluids, Jeffrey fluids	
Date of Birth	04-July-1985	
Aadhar No		
PAN No		
Email ID	bhavyashivaraj@dsatm.edu.in	

Educational Details

- Ph.D – Mathematics (Fluid Mechanics), VTU, Belagavi, 2022.
- M. Phil. in Manasagangotri, University of Mysore, Mysore, 2009.
- M. Sc. in Manasagangotri, University of Mysore, Mysore, 2008.
- B. Sc. in Bharathi College, Bharathi Nagar, Affiliated to University of Mysore, 2006.

Personal Details

- Date of Birth: 4/07/1985
- Hobbies: Reading, Driving, Yoga, Gardening
- Languages Known: Kannada, English, Telugu, Hindi

Professional Experience

- Working as Assistant Professor in Department of Mathematics at **Dayananda Sagar Academy of Technology and Management**, Bengaluru from February 2020 till the date.
- Worked as Assistant Professor in Department of Mathematics at **Atria Institute of Technology**, Bengaluru from July 2019 to February 2019.
- Worked as Assistant Professor in Department of Mathematics at **East West Institute of Technology**, Bengaluru from July 2011 to July 2019.
- Worked as Lecturer in Department of Mathematics at **Bharathi College**, Bharathi nagar from January 2010 to February 2011.
- Worked as Lecturer in Department of Mathematics at **Shridevi Institute of Engineering and Technology**, Tumkur from July 2009 to December 2009.

- Worked as Part-time Lecturer in Department of Mathematics at **T. T. L. College of Bussiness Management**, Mysore from January 2009 to May 2009.
- Worked as Lecturer in Department of Mathematics at **GSSSIETW**, Mysore from July 2008 to October 2008.
- Worked as Part-time Faculty in Mathematics at **The Institute of Chartered Accountants of India**, Mysore branch of Southern India Regional Council from 2008 to May 2009.

Publications

International Journals:

- P. G. Siddheshwar, D. Uma, and Bhavya Shivaraj, “Effects of variable viscosity and temperature modulation on linear Rayleigh- Bènard convection in Newtonian dielectric liquid”, *J. Applied Mathematics and Mechanics (English Edition)*, Springer, 40(11), 1601-1614, 2019. Impact Factor: 2.05, SCImago Journal Rank (SJR): 0.499, H-Index: 43, the best quartile for this journal is Q2. Overall Rank/Ranking: 10087. Official URL: <https://doi.org/10.1007/s10483-019-2537-9>
- P. G. Siddheshwar, D. Uma, and Bhavya Shivaraj, “Linear and non-linear stability of thermal convection in Newtonian dielectric liquid with field dependent viscosity”, *European Phy. J. Plus*, Springer, 135(2), 138(1-15), 2020. Impact Factor: 3.228, SCImago Journal Rank (SJR): 0.65, H-Index: 59, the best quartile for this journal is Q2. Overall Rank/Ranking: 7725. Official URL: <https://doi.org/10.1140/epjp/s13360-020-00224-y>
- Bhavya Shivaraj, P. G. Siddheshwar, and D. Uma, “Effects of variable viscosity and internal heat generation on Rayleigh- Bènard convection in Newtonian dielectric liquid”, *Int. J. Applied and computational Mathematics*, Springer, 7,119(1-17), 2021. Impact Factor: 1.65, SCImago Journal Rank (SJR): 0.327, H-Index: 17, the best quartile for this journal is Q3. Overall Rank/Ranking: 13992. Official URL: <https://doi.org/10.1007/s40819-021-01060-z>

Paper Presented in the Conferences:

- “A study of certain class of graphs which admit vertex graceful labeling”, National conference–Emerging Trends in Information Technology and Mathematics–East West Institute of Technology, Bengaluru, India, 3rd and 4th November 2011.
- “On vertex graceful labeling (p, p+1)-graphs”, National conference–Developments and opportunities in Civil Engineering, Applied Science and Mechanical Engineering (DOCAM)–East West Institute of Technology, Bengaluru, India, 18th and 19th May 2012.
- “Effect of internal heat generation on Rayleigh-Bènard convection in Newtonian dielectric liquid”, 59th Congress of The Indian Society of Theoretical and Applied Mechanics (ISTAM)–Alliance University, Bengaluru, India, 17th -20th December 2014.
- “Electroconvection in the presence of heat source/heat sink with variable viscosity”, International conference on Fluid Dynamics and its Applications–B. N. M. I. T, Bengaluru, India, 12th -14th July 2017.
- “Effect of temperature modulation on electroconvection in dielectric fluid”, 2nd International conference on Advances in Communication, Information & Computing Technology (ACICT-2019)–EWIT, Bangalore, 9th -10th May 2019.
- “Linear and Non-linear stability of thermal convection in rotating, Newtonian, dielectric liquids with field dependent viscosity”, International conference on Applied

Mathematics and Computational Science (ICAMCS-2019)–DIT University, Deharadun, Uttarakhand, India, 17th -19th October 2019.

Conference Attended

1. **“National Conference on the works of Srinivasa Ramanujan”** at Manasagangotri, Mysore on 3rdJuly, 2010
2. **“National Conference on Emerging Trans in Information Technology & Mathematics”** at EWIT, Bengaluru on 3rd& 4thNovember, 2011
3. **“National Conference on Developments and Opportunities in Civil Engineering, Applied Science and Mechanical Engineering (DOCAM)”** at EWIT, Bengaluru on 18th& 19th May, 2012
4. **“National Conference on Mathematical Modeling with Engineering Applications (MMEA-2013)”** at Govt. S.K.S.J.T.I, Bengaluru on 25th& 26th October, 2013
5. **“International Conference on 59th Congress of the Indian Society of Theoretical and Applied Mechanics ISTAM”** at Alliance University, Bengaluru on 17th&-20th December, 2014
6. **“International Conference on Fluid Dynamics and its Applications”** at BNMIT, Bengaluru on 12th - 14th July, 2017
7. **“International Conference on Advances in Communication, Information and Computing Technology (ACICT-2019)”** at EWIT, Bengaluru on 9th - 10th May, 2019
8. **“International Conference on Applied Mathematics and Computational Sciences (ICAMCS-2019)”**at DIT, University, Dehradun, Uttarakhand, India on 17th - 19th October, 2019
9. **“International Conference on Emerging Trends in Fluid Mechanics and its Applications (ICETFMA-2020)”** at CHRIST (Deemed to be University), Bengaluru on 27th - 28th February 2020
10. **“Webinar on Fluid Dynamics and its Applications”** at Government First Grade College, Vijayanagar, Bengaluru on 28th - 29th May 2020
11. **“Webinar on Key Issues in Research Methodology”** at G. T. N. Arts College (Autonomous), Dindigul, Tamilnadu on 3rd June 2020
12. **“Webinar on An Introductory Course on Fluid Dynamics”** at CHRIST (Deemed to be University), Bengaluru on 17-20 August and 24-28 August 2020
13. **“Webinar on Recent Trends in Fluid Dynamics”** at Sapthagiri College of Engineering, Bengaluru on 17th - 21st November, 2020

14. **“International Conference on Differential Equations and Applied Mathematics”** at Sri Vidya Mandir Arts and Science College, Krishnagiri in collaboration with CHRIST (Deemed to be University), Bengaluru and Jyothi Engineering College, Thrissur, on 12th-13th, April 2021
15. **“National Webinar on R & D service through I-STEM portal”**, on 10th June, 2021, www.istem.gov.in/istem-comsol
16. **“Five Days International Webinar on Industrial Mathematics and Scientific Computing, BMSIT & Management, Bangalore, on 10th -14th January, 2022**

Seminar Attended

- **Special Science Lecture Series** at Manasagangotri, Mysore on 5th -7th March 2007

Workshop Attended

1. **“Workshop on 15th ISTE Karnataka State Faculty Convention”** at EWIT, Bengaluru on 7th& 8th December, 2012
2. **“Three-Day Workshop on Research Methodologies & Latex”** at VTU Regional Office, Bengaluru on 18th - 20th March, 2015
3. **“Workshop on Wolfram Technology Workshop-2016”** at MSRIT, Bengaluru on 24th September, 2016
4. **“Workshop on Discrete Mathematics, Modeling & Computational Techniques in Science & Engineering”** at MSRIT, Bengaluru on 16th - 21th January, 2017
5. **“Workshop on MATLAB”** at EWIT, Bengaluru on 8th June, 2017
6. **“Workshop on Computational Methods for Partial Differential Equations using MATLAB”** at BNMIT, Bengaluru on 10th - 14th June, 2019
7. **“Workshop on Cum Winter School on Methods for Nonlinear Dynamical Systems and Chaos (WCWS-20019)”**at NIT, Uttarakhand, India on 23rd - 27th December, 2019

Patents published with All Details

Research Grants fetched with File No.

Student Project Funds Fetched with Grant No.

Consultancy Amount Fetched with Details

Awards

“Best Paper Award”, in Mathematics, “A study of certain class of graphs which admit vertex graceful labeling”, National conference–Emerging Trends in Information Technology and Mathematics–East West Institute of Technology, Bengaluru, India, 3rd and 4th November 2011.

Academic Activity

- Women Cell Coordinator
- MATH Club Coordinator
- Anti-Ragging Squad at EWIT

Faculty Development Activity/Workshops

1. “Faculty Development Program on Research Process” at EWIT, Bengaluru on 25th February, 2016
2. “Faculty Development Program on Theory and Applications of Mathematical Modelling in Engineering” at MSRIT, Bengaluru on 26th - 30th July, 2016
3. “Faculty Development Program on Advances Numerical Techniques for Engineers and Researchers (ANTER-2017)” at BMSCE, Bengaluru on 23rd - 28th January, 2017

Contact Details

Assistant Professor, Department of Mathematics
Dayananda Sagar Academy of Technology & Management
Udayapura, Kanakapura Road
Bengaluru-560 082
Mail ID: bhavyashivaraj@dsatm.edu.in
Phone No.:8971780349