



PERSONAL PROFILE

DR. RAVISHA M, M.Sc., M.Phil., Ph.D

Assistant Professor of Mathematics

**Dr. G. Shankar Govt. Women's First Grade College
And P.G. Study Centre, Ajjarakadu, Udupi-576101**

1. Name : **Dr. Ravisha, M**
2. Qualification : **M. Sc., M. Phil., PhD**
3. Designation : **Assistant Professor of Mathematics,**
4. Experience : **20 years,**
5. Department : **Mathematics**
6. Email-Id : **ravishmamatha@gmail.com**
7. Adhar Card No : **441847582510**
8. PAN No : **AEZPR8052C**
9. A.G Code : **1021739**
10. Residence : : **Silver Springs
I Main, 5th Cross
Mission Compound
Udupi -576101
☎ : 9980345800 (M)
E-mail : ravishmamatha@gmail.com**
11. Date and Place of Birth : **16.07.1973,
Pinnenahalli village,
Hosakere post, ChelurHobali,
Gubbi Taluk, Tumkur Distirct - 572222
Karnataka, India**
12. Area of Specialization : **Fluid Mechanics and Graph Theory**
13. Subject Taught : **Graph Theory, Numerical Analysis,
Calculus, Number Theory, Algebra,
Multivariate
Calculus, Ordinary Differential equations,
Partial Differential Equations, Discrete
Mathematical Structure, Complex**

Analysis, Linear Algebra, Laplace and
Fourier
Transforms, Fourier series, Statistics,
Probability, etc.,

14. Educational Qualifications :

Exam passed	Board/University	Subjects	Year	Division/Grade
High School	SSLC Board	Compulsory	1990	Second (57.3)
PUC	Pre university	P C M B	1992	Pass (45.3)
B. Sc	Bangalore University	P M G	1995	Second(53)
M. Sc	Bangalore University	Mathematics	18-08-1997	First (63)
M. Phil	Bangalore University	Mathematics (Fluid Mechanics)	May 1999	First (71)
PhD	Visvesvaraya Technological University, (VTU) Belgaum	Mathematics Fluid Mechanics	4.11.2010	Awarded

15. Teaching Experience : 19 years of teaching experience in B.E, MCA, M.COM, M.Sc., B.Sc. and BBM Courses since 1998

Course Taught	Name of the University/College/Institution	Duration
UG & PG (BE, MCA, M.COM, B.Sc., BBM)	➤ Belimatha Maha Samasthana Institute of Technology, Bangalore.	1999 – 2000
	➤ A M C Engineering College, Bangalore	9.11.2000 to 2.2.2006
	➤ East Point College of Engineering & Technology, Bangalore – 49 (SL: 3.2.06 to 31.01.08 & AP: 1.2.08 to 5.9.09)	3 rd Feb2006-05.09.2009.
	➤ Smt. Rukmini Shedthi Memorial National Government First Grade College, Barkur, Udupi, District-576210	07-09-2009 to 12-09-2011.
	➤ Dr. G Shankar Government Women's First Grade College and Post Graduate Study Centre, Ajjarkadu, Udupi 576201	12-09-2011 to till date.
PG (M.Sc.)	➤ Dr. G Shankar Government Women's First Grade College and Post Graduate Study Centre, Ajjarkadu, Udupi 576201	12-09-2011 to till date.

Total Teaching Experience : 20 years of teaching experience

a) Under - Graduate (Pass) : 20 years

b) Post – Graduate : 09 years

16. Seminars/Conference/ Symposia/Workshops Attended/presented

No. of International conferences/ seminars/workshops attended	No. of National/ conferences/worksh ops/ seminars attended	Paper presented
01	20	17 (5-International, 12-National)
Total – 38 nos. (Seminars/Conference/ Symposia/Workshops Attended/presented)		

17. Professional training/Career Advancement Programme :

No. of Training programme	Programme	
	No. of Orientation course attended	No. of Refresher course attended
05	01	02
Total No. – 08 (Training programme)		

18. BOS/BOE Membership (beginning with latest):

BOS/BOE	University/College	Subject	Years (From – To)
PGBOE	Mangalore University	Mathematics	2016-17 (DEC 2016)
PGBOE	St. Aloysius College	Mathematics	2015-17
UG BOAE	Mangalore University	Mathematics	2018-19 (Even Semester)

19. Details of membership in Academic bodies (if any):

Sl. No.	Name of the Academic body	Type of membership	From	To

20. Details of Administrative Positions held:

Designation	Duratio n	From -To	Name of the College
Head of the Department of Mathematics NSS coordinator	2009-10		

Member of IQAC III BSc Class teacher Organized special lectures			
Head of the Department of Mathematics Coordinator of Manavatha Programme NSS coordinator Member of IQAC III BSc Class teacher Coordinator of sports Library Committee member College year magazine coordinator College website committee Organized special lectures	2010-11		Smt. Rukmini Shedthi Memorial National Government First Grade College, Barkur, Udupi, Distric t-576210
Head of the Department of Mathematics Coordinator of Manavatha Member of IQAC Coordinator of sports III BSc Class teacher Library Committee member College magazine coordinator College website committee member Union of Alumni committee coordinator College Time Table committee coordinator Organized special lectures	2011- 12.09. 2011 (2011- 12)		
All India Survey on Higher Education coordinator Career guidance Committee member Communication skill Committee Staff secretary Committee II MSc class teacher Organized special lectures	2012-13		
All India Survey on Higher Education coordinator Member of IQAC Class Teacher for II MSc Mathematics Question paper setting Central valuation work and Internal Examination work Organized special lectures	2013-14		Dr. G Shankar Government Women's First Grade College and Post Graduate Study Centre, Ajjarkadu, Udupi 576201
All India Survey on Higher Education coordinator Member of NSS committee Member of IQAC committee RUSA Committee member Career guidance Committee member Communication skill Committee member Staff secretary Committee Member II MSc class teacher Question Paper setting Central valuation work Organized special lectures	2014-15		
All India Survey on Higher Education coordinator Coordinator of IQAC Member of RUSA Career guidance Committee member Communication skill Committee member	2015-16		Dr. G Shankar Government Women's First Grade

Staff secretary Committee member II MSc class teacher II B.COM (E) class teacher Question paper setting Central valuation work & internal Examination work PG BOE Organized special lectures			College and Post Graduate Study Centre, Ajjarkadu, Udupi 576201
All India Survey on Higher Education coordinator RUSA Coordinator Member of IQAC PG BOE I MSC class teacher B Com E Class teacher Question paper setting Central valuation work & internal Examination Organized special lectures	2016-17		
All India Survey on Higher Education coordinator RUSA Coordinator Member of IQAC Anti-ragging committee member Edu-Sat committee member II MSC class teacher III BCOM Class Mentor Question paper setting Central valuation work & internal Examination Organized special lectures	2017-18		
All India Survey on Higher Education coordinator RUSA Coordinator Swach Bharat Summer Internship Coordinator Anti-ragging committee member Edu-Sat committee member III BSc class teacher Question paper setting(PG) Central valuation work & internal Examination Organized special lectures BOE for UG (Even semester)	2018-19		
BOE for UG (Odd semester) All India Survey on Higher Education coordinator I BSc class teacher Question paper setting(UG and PG) Central valuation work & internal Examination Organized special lectures BOE for UG I BSc Practical Examination (External and Internal Examiner) E-Attastation Officer For State Scholarship Portal NSS Camp Co Cordinator	2019-20		
All India Survey on Higher Education coordinator Online Affiliation coordinator E-Attastation Officer For State Scholarship Portal II BSc class teacher Central valuation work & internal Examination	2020-21		

Organized special lectures			
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21. Details of Participation in EC/CC activities (Community Extension services):

Type of Activity	Position held	From-To	Name of the College
NCC	Nil	-	-
NSS	Served as a National Service Scheme (NSS) Coordinator for the Academic year 2009-2010, organized a special annual camp of National Service Scheme (NSS). The camp was well appreciated for various Awareness programmes and Cultural events conducted.	2009-10	Smt. Rukmini Shedthi Memorial National Government First Grade College, Barkur, Udupi, District-576210
	Served as a National Service Scheme (NSS) Coordinator for the Academic year 2010-11 , organized a special annual camp of National Service Scheme (NSS). Various Awareness programmes and Cultural events conducted.	2010-11	
	Worked as the coordinator of Sports for the Academic Year 2010-11		Dr. G Shankar Government Women's First Grade College and Post Graduate Study Centre, Ajjarkadu, Udupi 576201
	Worked as a Swach Bharat Summer Internship Coordinator for the academi year 2018-19	2018-19	
	Served as a National Service Scheme (NSS) Co Coordinator for the Academic year 2019-2020 , organized a special annual camp of National Service Scheme (NSS). Various Awareness programmes and Cultural events conducted	2019-2020	Dr. G Shankar Government Women's First Grade College and Post Graduate Study Centre, Ajjarkadu, Udupi 576201
Any Other (Specify)	-	-	-

22. Research Experience and Training

:Doing Research work in the field of Fluid Mechanics since 2006.

Research Stage	Title of work/Thesis	University where the work was carried out	Date of Registration and Examination	Date of Dissertation and Results
M. Phil	Ferroconvection in Porous media	Bangalore University	1998 and May-1999	08.04.1999 and 30.08.1999

PhD	Convective Instability of Magnetic Fluids in Isotropic and Anisotropic Porous Layers	Visvesvaraya Technological University, Belgaum	01.11.2006 Course work exam: Aug-2007	05.04.2010 and 04.11.2010 Convocation Date 18.04.2011
Publications	32 publications in international journals and 2 communicated			

A) List of Publications (National and International Journals):

1. Thermomagnetic convection in a magnetic nanofluid saturated porous medium, **International Journal of Applied Mathematics and Engineering Sciences, Vol.2, No.2, pp 157 – 170, 2008** (with I. S. Shivakumara and C. E. Nanjundappa). ISSN: 0975-0770
2. Effect of boundary conditions on the onset of thermo-magnetic convection in a ferrofluid saturated porous medium, **Transaction of ASME Journal of Heat Transfer, Vol. 131, pp. 101003-1 to 101003-9, 2009** (with I. S. Shivakumara and C. E. Nanjundappa).
3. The onset of buoyancy-driven convection in a ferromagnetic fluid saturated porous medium, **Meccanica, Vol. 45, No.2, pp 213-226, 2010** (with C. E. Nanjundappa and I. S. Shivakumara). **Impact Factor - 1.558**
4. Boundary and thermal non-equilibrium effects on the onset of Darcy-Brinkman convection in a porous layer, **Journal of Engineering Mathematics, Vol. 67, pp 317-328, 2010** (with I. S. Shivakumara and A.L. Mamatha). **Impact Factor - 0.856**
5. The onset of convection in a horizontal ferrofluid saturated porous layer heated from below and cooled from above with constant heat flux subject to MFD viscosity, **International Communications in Heat Mass Transfer, 37, pp 1246-1250, 2010** (with C.E. Nanjundappa and I. S. Shivakumara). **5 years Impact Factor -1.949 (Impact Factor -1.892)**
6. Brinkman-Benard-Marangoni convection in a magnetized ferrofluid saturated porous layer, **International Journal of Heat and Mass Transfer, 53, pp 5835-5846, 2010** (with I. S. Shivakumara, Jinho Lee and C.E. Nanjundappa). **Impact Factor 2.407, 5 years Impact Factor - 2.913.**
7. Effect of thermal non-equilibrium on convective instability in a ferromagnetic fluid saturated porous medium, **Transport in Porous Media, (2011) 86:103–124 DOI 10.1007/s11242-010-9608-6, 2010** (with Jinho Lee and I. S. Shivakumara). **Impact Factor - 1.811**
8. Penetrative ferroconvection in a porous layer, **Acta Mechanica, 216(1-4), pp. 243-257, DOI 10. 1007/s007077-010-0367-9, 2011** (with C.E. Nanjundappa, Jinho Lee and I. S. Shivakumara). **Impact Factor -1.465**

9. Effects of variable viscosity and density maximum on the onset of Darcy-Benard convection using a thermal non-equilibrium model, **Journal of Porous Media**, **13 (7) pp. 613-622, 2010** (with I. S. Shivakumara and A.L. Mamatha). **Impact factor: 0.707**
10. Effect of internal heat generation on the onset of Brinkman-Benard convection in a ferrofluid saturated porous layer, **International Journal of Thermal Sciences**, **50, 160-168, 2011** (with C. E. Nanjundappa, I. S. Shivakumara and Jinho Lee). **Impact factor: 2.142, Last 5 years Impact Factor: 2.390**
11. Ferromagnetic convection in a rotating ferrofluid saturated porous layer, **Transport in Porous Media**, (2011) **87:251–273**, DOI **10.1007/s11242-010-9678-5**(with I. S. Shivakumara, Jinho Lee and C.E. Nanjundappa). **Impact Factor - 1.811**
12. The onset of Brinkman ferroconvection using a thermal non-equilibrium model, **International Journal of Heat and Mass Transfer**, **54, 2116-2125, (2011)** (with I. S. Shivakumara, Jinho Lee, and R. Gangadhara Reddy). **Impact Factor 2.407, 5 years Impact Factor - 2.913.**
13. Boundary and thermal non-equilibrium effects on convective instability in an anisotropic porous layer, **Journal of Mechanical Science and Technology**, **25(4), 911-921, 2011**(with I. S. Shivakumara, Jinho Lee and A.L. Mamatha). **Impact Factor: 0.448**
14. Effects of MFD viscosity and LTNE on the onset of ferromagnetic convection in a porous medium, **International Journal of Heat and Mass Transfer** **54 (2011) 2630–2641** (with I. S. Shivakumara, Jinho Lee, and R. Gangadhara Reddy). **Impact Factor 2.407, 5 years Impact Factor - 2.913.**
15. The Onset of Brinkman Ferroconvection in an Anisotropic Porous Medium, **International Journal of Engineering Science** **49 (2011) 497–508** (with C.E. Nanjundappa, I. S. Shivakumara and Jinho Lee). **Impact Factor: 2.884, 5 years Impact Factor: 3.165.**
16. Ferromagnetic Convection in a Heterogeneous Darcy Porous Medium Using a LTNE Model, **Transport in Porous Media**, **2011, v. 90, n. 2, p - 529-544** (with I. S. Shivakumara, Chiu-On Ng, M Ravisha), **Impact Factor - 1.811**
17. The effects of local thermal non-equilibrium and MFD viscosity on the onset of Brinkman ferroconvection, **Meccanica**, **2012, 47(6), 1359-1378** (I.S. Shivakumara, Jinho Lee , R. M Ravisha Gangadhara Reddy), **Impact Factor - 1.558.**
18. Onset of Brinkman ferroconvection in a porous layer: Effect of MFD viscosity and magnetic boundaries, **Journal of Mechanical Science and Technology**, **27(12) (2013), 3875-3884.** (I. S. Shivakumara, Jinho Lee and C. E. Nanjundappa M Ravisha and D H Lee). **Impact Factor - 0.856.**

19. Ferromagnetic Convection in a Heterogeneous Porous Medium, **The Arabian Journal for Science and Engineering**, (2014) 39(10):7265–7274, (I.S. Shivakumara, Chiu-On Ng M Ravisha), **Impact Factor: 0.243**
20. Effect of rotation on ferromagnetic porous convection with a thermal non-equilibrium model, **Meccanica**, (2014) 49(5):1139–1157 (I. S. Shivakumara R. Gangadhara Reddy, M Ravisha Jinho Lee). **Impact factor: Impact Factor - 1.558.**
21. The effect of anisotropy on the stability of thermomagnetic convection in a ferrofluid saturated porous layer. **Proceedings Jangjeon mathematical society**, (2014) 17(3) 333-345.
22. Effect of vertical heterogeneity on the onset of ferroconvection in a Brinkman porous medium, (IS Shivakumara, CE Nanjundappa, HN Prakasha M Ravisha) **Publication date 2015/1/12 AIN SHAMS (2015) 6, 649–655, Journal Ain Shams Engineering Journal Publisher Elsevier, ISSN: 2090-4479**
23. A thermal non-equilibrium model with Cattaneo effect for convection in A Brinkman porous layer, (IS Shivakumara, M Ravisha Chiu-On Ng, VL Varun) **Publication date 2015/2/2, International Journal of Non-Linear Mechanics 71 (2015) 39–47, ISSN: 0020-7462, 5-Year Impact Factor: 1.673**
24. Local thermal non-equilibrium effects on thermal convection in a rotating anisotropic porous layer, (I.S. Shivakumara a, A L Mamatha, M Ravisha) **Applied Mathematics and Computation 259 (2015) 838–857, 5-Year Impact Factor: 1.672, ISSN 0096-3003**
25. Porous Ferroconvection with Local Thermal Nonequilibrium Temperatures and with Cattaneo Effects in the Solid, **Acta Mechanica**, 226 (11), 3763-3779, 2016 (IS Shivakumara, M Ravisha Chiu-On Ng, VL Varun), 2015, ISSN: 1619-6937 (electronic version), **Impact Factor 1.465.**
26. Linear and weakly nonlinear magnetoconvection in a porous medium with a thermal nonequilibrium model, **Afrika Mathematica**, 2016, 27 (7-8), 1111-1137, ISSN 1012-9405 (with S. Shivakumara A.L. Mamatha).
27. Effects of Alternating Current Electric Field and Thermal Non-equilibrium on the Brinkman - Benard Instability, **Special Topics & Reviews in Porous Media: An International Journal**, 2017 8(1), 17-37, ISSN 2151-4798, (I.S. Shivakumara, Akkanagamma, A.L. Mamatha)
28. Boundary effects on electro-thermal convection in a dielectric fluid layer, **Archives of Thermodynamics, De Gruyter**, Vol. 40 (2019), No. 1, 3–19 ISSN 1231-0956 (print), 2083-6023 (online) (Raghunath, Mamatha AI IS Shivakumara)

29. Thermomagnetic convection in porous media: Effect of anisotropy and local thermal nonequilibrium, **Defect and Diffusion Forum**, 2017, **378**, 137 – 156. (Mamatha AL IS Shivakumara) ISSN **1012-0386**
30. Brinkman ferroconvection: Effects of vertical heterogeneity in permeability and local thermal non-equilibrium, **Multidiscipline Modelling in Materials and Structures**, **13 (3)**, **366-376** , 2017 (Gangadar Reddy R IS Shivakumara) ISSN:1573-6105, E-ISSN:1573-6113.
31. Cattaneo-LTNE porous ferroconvection, **Multidiscipline Modelling in Materials and Structures**, **15(4)**, 779-799 (2019) ISSN:1573-6105, E-ISSN:1573-6113 (Mamatha AL IS Shivakumara)
32. Practical Insight of Ferroconvection in Heterogeneous Brinkman Porous Medium, **International Journal of Applied Mathematics and Theoretical Physics**, 2020; 6(3): 41-48 ISSN: 2575-5919 (Print); ISSN: 2575-5927 (Online) (Ravisha Mallappa, Basavarajaiah Doddagangavadi Mariyappa, Mamatha Arabhaghatta Lingaraju, Prakash Revanna)
33. Cattaneo-LTNE effects on the stability of Brinkman convection in an anisotropic porous layer, submitted, 2019, **International Journal of Applied and Computational Mathematics**, (Hema. M, I. S. Shivakumara and M Ravisha)
34. Double diffusive LTNE porous convection with Cattaneo effects in the solid, *Heat Transfer in Asian Research*, DOI: 10.1002/htj.21791, 2020, ISSN:2688-4542 (2688-4534)(Hema. M, I. S. Shivakumara and M Ravisha)
35. **Chaotic Cattaneo-LTNE porous convection**, *Meccanica*, **Submitted** (M Ravisha , I. S. Shivakumara Hema. M, and Mamatha A L)

36.

B) Research Project carried out: Nil

C) Research Guidance: Nil

D) Articles / Books published (if any) :

1. **Convective Instability in a Ferrofluid Saturated Porous Medium**, ISBN **978-620-2-67340-2**, LAP LAMBERT Academic Publishing, 2020.
2. **College Mathematics, volume – I** , ISBN **978-93-89334-40-1**, New United Publisher, Mangalore-575 003, 2020.

c) **Papers presented in Conferences/Seminars/Workshops/Symposia**

1. **Presented** our paper entitled “The onset ferroconvection in a porous medium” in **International conference on Frontiers in Fluid Mechanics** organized by Department of Mathematics, UGC-CAS in Fluid Mechanics, Bangalore University, Bangalore-560 001, during October 26-28, 2006.
2. **Presented** our paper entitled “Brinkman Benard Convection in a Horizontal Magnetic Nano fluid Saturated Porous Layer” in **2nd National conference** on Engineering Applications organized by Maharashtra Academy of Engineering held at Alandi, Pune, during 22-23, May 2008.
3. **Presented** our paper entitled “Effect of MFD viscosity on the onset of Brinkman-Benard ferroconvection in a horizontal saturated porous layer” in **International conference on Frontiers in Fluid Mechanics organized** by Department of Mathematics, UGC-CAS in Fluid Mechanics, Bangalore University, Bangalore-560 001, during August 31st to September 2nd, 2009.
4. **Presented** our paper entitled “The onset of ferroconvection in a horizontal ferrofluid saturated porous layer heated from below and cooled from above with constant heat flux subject to MFD viscosity” in **national conference** on Linear Algebra and Applications organized by Department of Mathematics, Milagres College, Kallianpur during 4-5, August 2011.
5. **Presented** my paper entitled “Effect of MFD Viscosity on the Onset of Brinkman Ferroconvection in a Porous Layer” in **UGC Sponsored national conference** on MATHEMATICAL SCIENCES AND APPLICATIONS organized by Department of Mathematics, Govt. First Grade College, Koppa on 9th March 2013.
6. **Presented** my paper entitled “Onset of Buoyancy-Driven Ferroconvection in a Horizontal Saturated Porous Layer” in **national conference** on RECENT TRENDS IN APPLIED MATHEMATICS organized by Department of Mathematics, SIT, Tumkur, on 7th and 8th 9th June 2013.
7. **Presented** my paper entitled “The effect of anisotropy on the stability of thermomagnetic convection in a ferrofluid saturated porous layer” in **INT. CONFERENCE OF JANGJEON MATHEMATICAL SOCIETY ON GLOBAL ADVANCEMENT OF MATHEMATICS** organized by Department of Mathematics, ACHARAYA INST. OF GRADUATE STUDIES, BANGALORE, INDIA on AUGUST 01-04, 2013.
8. **Presented** my paper entitled “The onset of buoyancy-driven convection in a ferromagnetic fluid saturated heterogeneous porous medium” in **National Conf. on Mathematical Modeling with Engg. Applications** organized by Department of Mathematics, Govt. S.K.S.J. Technological Institute, Bangalore 25th and 26th, October 2013.

9. **Presented** my paper entitled “The Onset of Ferroconvection in a Horizontal Porous Layer with Magnetic Field-Dependent Viscosity” in **Intentional Conf. on Mathematics Education and Mathematics in Engg. & Technology** organized by Department of Mathematics, Mohandas college of Engg. And Technology, Anad, Trivandrum on 17-20 Dec 2013. ISBN:978-81-927250-7-9
10. **Presented** my paper entitled “Effects of LTNE and Anisotropy on the Onset of Thermomagnetic Convection in a Magnetic Fluid Saturated Porous Media” in **One day National seminar on Graphs in network theory** organized by Department of Mathematics, Govt. First Grade College, Bettamady, on 15th February 2014.
11. **Presented** my paper entitled “The onset of ferroconvection in a heterogeneous Brinkman porous medium” in **UGC-CPE Programme sponsored National conference** on emerging trends in Mathematics organized by Department of Mathematics, Govt. Science College, Bangalore on 25th April 2014.
12. **Presented** my paper entitled “The effect of anisotropy on the onset of Brinkman convection in a porous layer” in **UGC sponsored National conference** on Numerical methods and Network Analysis organized by Department of Mathematics, Milagres College, Kalyanpur, on 18th July 2014.
13. **Presented** my paper entitled “Ferromagnetic in a heterogeneous Darcy porous medium” in **two day National conference** on Advance in Geometry, Analysis and Fluid mechanics organized by Department of PG studies and research in Mathematics, KUVEMPU University, Shimoga held during 26th August and 27th August 2014.
14. **Presented** my paper entitled “Effects of LTNE and throughflow on the onset of Darcy-Benard convection in a porous layer” in the **UGC sponsored National conference** on Pure and Applied Mathematics organized by Department of Mathematics, Sahyadri Science college, Shimoga held on 29th September 2014.
15. **Presented** my paper entitled “Onset of Brinkman ferroconvection using LTNE model with Cattaneo effects in the solid” in the **National conference** on Mathematics and its Applications” organized by Department of Mathematics, Adichunnchangiri Institute of Technology, Chikmagalore, held on 22nd and 23rd December 2015.
16. **Presented** my paper entitled “Ferromagnetic porous convection using a local thermal nonequilibrium model with Cattaneo effects in the solid” in the **International National conference on Differential Geometry, Analysis and Fluid Mechanics**” organized by Department of Mathematics, KUVEMPU UNIVERSITY, Shimoga, held on 4th and 5th January 2016.
17. **Presented** my paper entitled “Effects of LTNE and Anisotropy on the Onset of Ferroconvection in a Brinkman Porous Medium ” in the **National conference** on Recent Advances in Applied Sciences (RASS-2016) organized by Department of Mathematics, AMC Engineering College, Bengaluru, held on 25th April 2016.

18. **Presented** my paper entitled “Brinkman ferroconvection: Effects of vertical heterogeneity in permeability and local thermal non-equilibrium” in the National Symposium on Mathematical and its Applications (NSMA) on the occasion of superannuation of Prof. I S Shivakumara, organized by Department of Mathematics, Bangalore university, J. B Campus, Bengaluru in association with Bengaluru central North University, Bengaluru and held on 27th April 2019.

19. **Presented** my paper entitled “Cattaneo-LTNE effects on of Brinkman ferroconvection in a porous layer” in the One day International conference on Recent Advanced in Interdisciplinary Mathematical Sciences, Organized by Department of UG, PG and Research in Mathematics, Govt. Science College (Autonomous), Bengaluru on 06.09.2019.

d) **Invited lectures in Conferences/Seminars/Workshops/Symposia**

1. **Delivered invited talk on “Shooting Method in solving Boundary Value Problem”** in the UGC sponsored National workshop on Partial Differential Equations and Numerical in Fluid Mechanics organized by Department of Mathematics, Govt. First Grade College, Koppa held on 4th and 5th March 2016.
2. **Delivered invited talk on “Convective Instability in a saturated Ferrofluid Porous Layer”** in the Science Day of Scientia-2k16 organized by Department of Mathematics, Smt. Rukmini Shedthi National Govt. First Grade College and PG Study Centre, Barkur 576210 held on 16th March 2016.
3. Invited as a subject expert on the panel of interviewers for selecting the teaching faculty of Alva’s College, Moodbidri 574227, DK.
4. **Chaired** a paper presenter session in the UGC sponsored National seminar on Applications of Group Theory organized by the department of Mathematics, Vivekananda College, Puttur, Karnataka, held on 27th August 2016.
5. Delivered special lecture on Graphs and its Applications organized by Department of Mathematics, Govt. First Grade College, Tenkanadior, Udupi, held on 1st March 2017.
6. **Delivered invited talk on “LTNE Porous Ferroconvection with Cattaneo Effects in the Solid”** in the National Conference on Recent Advances in Mathematical Sciences and Applications organized by Department of Studies and Research in Mathematics, Tumkur University, Tumakuru during 1st and 2nd December 2017.
7. **Chaired** a session in the National Conference on Recent Advances in Mathematical Sciences and Applications organized by Department of Studies and Research in Mathematics, Tumkur University Tumakuru during 1st and 2nd December 2017.
8. **Delivered invited talk on “Cattaneo-LTNE Porous Ferroconvection”** in the International Conference on Computational Fluid Flow and Heat Transfer organized by Department of Mathematics Osmania University Hyderabad during 28-29 March 2018.

9. **Delivered invited talk on “Cattaneo-LTNE Porous Ferroconvection”** in the International Conference on Computational Fluid Flow and Heat Transfer organized by Department of Mathematics Osmania University Hyderabad during 28-29 March 2018.
10. **Delivered talk on “Ferromagnetic convection in a heterogeneous Brinkman porous medium with internal heat source”** in the NATIONAL CONFERENCE ON RECENT DEVELOPMENTS OF MATHEMATICS IN INDUSTRIAL APPLICATIONS organized by Department of Mathematics, Kuvempu university, Shivamogga, held on April, 11th and 12th 2019.
11. **Delivered lecture on “Introduction to Maxima”** for I semester B Sc students organized by Department of Mathematics, Smt. Rukmini Shedthi National Govt. First Grade College and PG Study Centre, Barkur 576210 held on 30.07.2019.
12. **Chaired** a session in the state level one day Workshop on Conservation of Water and Aquatic Biodiversity – A social Responsibility “Save water Ensure your Future” jointly organized by Department of Sociology and Department of Zoology, Dr. G Shankr Govt. Women’s First Grade College and PG Study Centre, Ajjarakadu, Udupi held on August 29 2019.

e) Seminars/Conference/ Symposia/Workshops Organized

1. One day **workshop on “Probability and Statistics”** organized by A M C Engineering College Bangalore-83.
2. One day **workshop on “Discrete Mathematical Structure”** organized by A M C Engineering College Bangalore, held on 12th September 2004.
3. Organized and attended two **special camps of National Service Scheme (NSS)** in Private Higher Primary School, Muddumanae from 22-12-2009 to 28-12-2009 and Government Higher primary School, Marali, Nalkur from 23-12-2010 to 29-12-2010.
4. One-day National Workshop on “Real Analysis and Topology” organized by Department of Mathematics, Dr. G Shankar Govt. Women’s First Grade College and Post Graduate Study Centre, Ajjarakadu, Udupi held on **27th of September 2017**.
5. One-day Intercollegiate event Ganitha Manthana 2020 organized by Department of Mathematics, Dr. G Shankar Govt. Women’s First Grade College and Post Graduate Study Centre, Ajjarakadu, Udupi held on **13th Febraury 2020**.
- 6.
- 7.

H) Seminars/Conference/ Symposia/Workshops Attended:

1. One day **workshop on “Mathematical Modeling of Environmental pollution and Material Science”** organized by UGC-DSA Centre in Fluid Mechanics, Dept. of Mathematics held at Central college during May 17-20, 1999, Bangalore University, Bangalore-560 001.

2. Three-day **Symposia on “Recent Findings in Fluid Mechanics”**, organized by UGC-DSC Centre in Fluid Mechanics, Dept. of Mathematics held at Central college during Feb.11-13, 1999, Bangalore University, Bangalore-560 001.
3. One day **workshop on “ZEE Transform and Applications”** organized by East Point College of Engg and Technology, Bangalore-49, held on August 27th 2003.
4. Two day **symposium on “Recent Trends in Fluid Mechanics”**, organized by UGC-DSC Centre in Fluid Mechanics, Dept. of Mathematics held at Central college during July 21– 22, 2005, Bangalore University, Bangalore-560 001.
5. Attended two **week workshop on “Computational Fluid Mechanics”** organized by Dept. of Mathematics held at B M S College of Engg., Bangalore, and Dated 09.01.2008 to 23.01.2008.
6. Attended two day **National symposium on “Recent Trends in Fluid Mechanics”** organized by UGC-CAS Centre in Fluid Mechanics, Departments of Mathematics, Bangalore University, Bangalore-01 during Jan. 7 & 8, 2008. Presented the paper entitled “Thermomagnetic Convection in a Magnetic Nanofluid Saturated Porous medium” in above said Symposium.
7. One day **workshop on “Nano-Technology”** organized by East Point College of Engg and Technology, Bangalore-49, held on February 22nd 2008.
8. Two-day **Symposia on “Recent Findings in Fluid Mechanics”**, organized by UGC-DSC Centre in Fluid Mechanics, Dept. of Mathematics held at Central college during Jan.7 & 8, 2008, Bangalore University, Bangalore-560 001.
9. Attended the **workshop on “Research Methodology”** organized by **Visvesvaraya Technological University** held at M S Ramaiah Institute of Technology, Bangalore during May 28th and 29th 2009.
10. Participated in the **training programme on Social Entrepreneurship for NSS volunteers** organized by RGNIYD, Bangalore from 15th -17th April 2010.
11. Participated in the **Orientation programme** organized by UGC Academic Staff College, Bangalore from 1st Feb 2010 -2nd March 2010.
12. Participated in the **“Faculty Development Programme for Undergraduate Mathematics Teachers (FDP-UG)”** organized at University College, mangalore-575 001 during 24-26 March, 2011.
13. Participated in one day **training programme on “Teacher leadership and Effective Teaching”** conducted by Smt. Rukmini Shedthi Memorial National Government First Grade College, Barkur on 10th July 2011.

14. Participated in the **“Teacher Empowerment Training for Assistant professors”** conducted by the Department of Collegiate Education, Government of Karnataka in collaboration with Karnataka Jnana Ayoga during 10-16 April, 2011.
15. Attended the state level **workshop on “Number Theory”** Department of Mathematics, ST. Joseph Engineering College, and mangalore-575 028 during 28th and 29th of July, 2011.
16. Attended in one day **Faculty Improvement programme on “EFFECTIVE TEACHING – TOWARDS BETTER TEACHER”** organized by Smt. Rukmini Shedthi Memorial National Government First Grade College, Barkur on 19th August 2012.
17. Attended the national level **workshop on “Graph Theory and its Applications”** Department of Mathematics, ST. Aloysius College, and Mangalore from 3/1/2013 to 5/1/2013.
18. Participated in the **Refresher course in Mathematics** organized by UGC Academic Staff College, Pt. Ravishankar Shukla University, Raipur, Chhattisgarh state from 1st February 2013 -21st February 2013.
19. Attended the one day workshop on **“Software Latex”** organized by Department of Mathematics, Poorna Prajna College, Udupi on 6th July 2013.
20. Attended the UGC sponsored two day national seminar on **“Number theory and its Applications”** Department of Mathematics, Mahatma Gandhi Memorial College, Udupi from 12/12/2014 to 13/12/2014.
21. Attended the state level seminar on **“CRYPTOGRAPHY”** organized by Department of Mathematics, Vivekananda College of Arts, Science and Commerce, Puttur on 15/12/2014.
22. Attended the state level seminar on **“GRAPH NETWORKS AND NAVIGATORS”** organized by Department of Mathematics, Poorna Prajna College, Udupi on 1/1/2015 and 2/1/2015.
23. Attended district level the workshop on awareness programme on **“Mental Health”** organized by **Karnataka State Mental Health Authority** at Udupi on 9/8/2015.
24. Attended a workshop on **“SCIENTIFIC COMPUTING USING SCILAB”** organized by Department of Mathematics, Smt. Rukmini Shedthi memorial National Govt. First Grade College and PG Study centre, Barkur, Udupi Dist. on 30/1/2016.

25. Participated as member of organizing committee of National Science Day held at Dr. G Shankar Women's first Grade College and PG Study Centre, Ajjarakadu, Udupi on 29/02/2016
26. Attended a workshop on **“All India Survey on Higher Education”** organized by Mangalore University, Mangalore on 31/02/2017.
27. Participated in the **Refresher course in Mathematics** organized by Faculty Development Centre, Indian Institute of Technology (Indian School of Mines), Dhanbad, Jharkhand state from 16th May 2017 -6th June 2017.
28. Participated in the Special Lecture series On **“Recent Developments in Modeling and its Applications”** jointly organized by Department of Mathematics and Statistics, Mangalore University, Mangalore on Dec 5 2017.
29. Participated in one day workshop on NAAC New Methodology and Quality Sustenance at Milagres College, Kalyanpur on 16 March 2018.
30. Attended the FORMAT meeting on 23rd September 2018 held at University College, Mangalore, to discuss implimenatuion of the new Syllabus in the Choice Based Credit System.
31. Participated in the Capacity Building Workshop on **“The Role of Skill Development in Higher Education”** organisee by Karnataka State Education Council, Bengaluru, 2018 in assosciation with Rashtriya Uchahatar Shiksha Abhiyan (RUSA) and Karnatak University, Dharwad held at Karnatak University, Dharwad on 24.09.2018
32. Attended the workshop on formation of new syllabus for II BSc Mathematics under Choice Based Credit System on 29.09.2018 at Poorna Prajna College, Udupi.
33. Attended the one day workshop on Mathematics new syllabus under Choice Based Credit System on 03.10.2018 at University College, Mangaluru.
34. Attended KSTA Sponsered Two Day Special Lecture Series Workshop on Recent Trends in Mathematics held at Dept. of Mathematics, Mangalore University, Mangalagongthri, Mangaluru, during 5th and 6th October 2018.
35. Participated in One day Workshop on **“Laboratory for B.Sc Mathematics- An Introduction to Scilab/Maxima”** organized by Department of Mathematics, Dr. P Dayananda Pai – P Sathish Pai Govt. First Grade College Mangalore, Carstreet, Manaluru in association with Forum of Mathematics Teachers in Colleges of Mangalore University held on 03.03.2019

36. Participated in One day Workshop on “Development of Faculty Profile & Institutional Distinctiveness” organized by IQAC, PoornaPrajna Evening College held on 09.03.2019.
37. Participated in One day Workshop on “Scilab/Maxima” organized by Post graduate Department of Mathematics, St Philomena College, Puttur & FORMAT- Mangalore, held on 16.03.2019.
38. Participated in “Two day workshop on Scilab organized by Department of Mathematics in association with FORMAT (Forum of Mathematics Teachers in Colleges of Mangalore University), Canara College Mangalore, held on 10th and 11th June , 2019.
39. Participated in “Two day National Level Skill Development Workshop on Scilab organized by Department of Mathematics, Mangalore University, Mangalore, held on 15th and 16th July , 2019.
40. **Successfully completed the course “Introduction to Abstract Group Theory” with 2 credits during August 2019 to October 2019, conducted by NPTEL and funded by the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT), MHRD, Govt. of India.**
41. Participated in the UGC Sponsered **Refresher course in Mathematical Science (Mathematics)** organized by Human Resourse Development Centre, University Of Mysore, Karnataka state from 24th December 2019 to 6th January 2020
42. Attended in conducting Pre-PhD Comprehensive Viva-Voce examination of Research scholar Mrs. Sreelatha M at T John Institute of Technology , Research Centre Bangalore under VTU held on 8th January , 2020.
43. Attended in “One day National Level Skill Development Workshop on Scilab organized by Department of Mathematics, Mangalore University, Mangalore, held on 18th January , 2020.
44. successfully completed the **online** course on Measures of Central Tendency and Correlation on 07.05.2020 hosted by the Department of Mathematics, SRI KRISHNA ADITHYA COLLEGE OF ARTS & SCIENCE **Kovaipudur, Coimbatore-641042**
45. Participated in the “**International Webinar on Life and Contributions of Maryam Mirzakhani**” organized by Department of Mathematics, St. Xavier’s College for Women, Aluva on 12-05-2020 organized as part of Women in Mathematics Day observation
46. Participated in **One Week National Level Online Faculty Development Programme and successfully completed the hands on training in R Language**, held during

13.05.2020 to 20.05.2020, organized by the *PG and Research Department of Mathematics, Auxilium College (Autonomous), Vellore, Tamil Nadu*, in collaboration with *Spoken-Tutorial Project, IIT Bombay*, funded by National Mission of Education through ICT, MHRD, Govt. of India.

47. Through IIT Bombay BodhiTree platform successfully completed the '**Effective and Efficient Online Teaching in the Age of Corona, A Hands On Workshop**' on **17 May 2020**. Attended the interaction session and successfully completed both pre and post workshop online activities, **involving 3 days** of video lectures and hands-on work. This training was organised by the Teaching Learning Centre (ICT) at IIT Bombay, funded by the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMNMTT), MHRD, Govt. of India.
48. Participated in the Faculty Development Workshop on E-Learning, Organised by HR College of Commerce and Economics in Collaboration with EdFly on 20th May 2020
49. Participated in the Two day International Webinar on 'Recent research Topics in Graph Theory' organized by the PG & Research Department of Mathematics, MES Mampad College (Autonomous), Kerala during 20-21 May 2020.
50. Participated in **One Week National Level Online Faculty Development Programme and successfully completed the hands on training on SCILAB-An Open Source substitute for MATLAB jointly organized by JNTUH College of Engineering Sultanpur, Telagana and Spoken Tutorial Project, IIT Bombay** held during 25.05.2020 to 30.05.2020.
51. Attended two days' International Webinar on 'FLUID DYNAMICS AND ITS APPLICATIONS', Organised by the Department of Mathematics, Government First Grade College, Vijayanagara, Bengaluru on 28th and 29th May 2020, in association with Department of Mathematics, Bangalore University, Bengaluru.
52. Participated in Five day **Online Faculty Development Programme on Evolution from Offline to Online Teaching**, held during 30th May 2020 to 3rd June 2020, organized by Sathish Pradhan Dnyanasadhana College, Thane
53. Participated in an International Webinar on "**Maple software for beginners: A Mathematical Tool**" during 5th June 2020 organized by Department of Mathematics, K.L.E. SOCIETY'S JAGADGURU TONTADARYA COLLEGE, GADAG.
54. Participated in **One Week National Level Online Faculty Development Programme on MOODLE Learning Management System jointly organized by JNTUH College of Engineering Sultanpur, Telagana and Spoken Tutorial Project, IIT Bombay** held during 10.06.2020 to 15.06.2020.

55. Attended FIVE-DAY WEBINAR SERIES from 13th July to 17th July 2020 organised by **The National College, Jayanagar Bangalore - 560070**
56. Attended an online one week Faculty Development Programme on “Recent Advances in Material Science and Mathematical Application” from 15th June to 19th June 2020 organised by Dept. of Mathematics , Ghousia College and Engineering, Ramanagar, Karnataka
57. Successfully completed National Level Online Quiz on “YOGA” in view of International Yoga Day organised by the Department of Physical Education, Government First Grade College, Mudipu on 21st June,2020 .
58. Participated in the webinar on "**WOLFRAM MATHEMATICA : AN OVERVIEW**" held on 10/07/2020 organized by the Department of Mathematics & Department of Industrial Engineering and Management at Dr. Ambedkar Institute of Technology, Bengaluru.
59. **Attended and successfully completed the “106th Online Short Term Course on E - Content Development” during 23.07.2020 to 29.07.2020 organized by UGC – Human Resource Development Centre, GUJARAT UNIVERSITY, Ahmedabad.**
60. Participated in Online “**Faculty Development Programme**” on **Sci-lab , Maxima and Python** organised by the **Department of Mathematics and Department of Computer Science, P .C. JABIN SCIENCE COLLEGE, Autonomous, Hubballi-580031** from 17th to 21st August 2020.
61. Participated in the webinar on “ICT Skills for E-Content Development” conducted by Internal Quality Assurance Cell of Government First Grade College Kushalnagar on 26 and 27 August 2020.
62. Participated in Online “**Faculty Development Programme**” on **Sci-lab , Maxima and Python** organised by the **Department of Mathematics and Department of Computer Science, P .C. JABIN SCIENCE COLLEGE, Autonomous, Hubballi-580031** from 17th to 21st August 2020.

8. Membership of Academic bodies :

Member of FORMAT (Mangalore University)

9. Details of honor /award received (if any): Nil

10. Inter University Assignments :

Sl.No	University	Nature of Work
1	Mangalore University	PGBOAE
2	St. Aloysius College , Mangalore	PGBOAE
3	Mangalore University	UG BOAE (2018-19 even semester and 2018-19 Odd semester)

11. Editorial Board :

Sl.	Name of the Journal	Designation
	NIL	

12. Special Achievements: Nil

13. Innovative teaching Practices adopted:

- Introductory methods adopted in the class to create interest in the topic. Questioning, analytical discussion and interaction method are also adopted contextually.

14. Best Practices in teaching learning & evaluation:

- Remedial classes and Tutorial classes.
- Group discussion, Interactive classes, micro seminars
- To improve subject interest and proficiency seminars and assignments given.
- Training the students for NET examination
- Using Computers and LCD projector for ICT mode classroom teaching.
- Organizing special lectures
- Internal examination are conducted



Date:

Signature