

## Faculty Profile

<b>Name of Faculty</b>	Dr. N. P. Chandrashekara
<b>Department</b>	Mathematics
<b>Qualification</b>	M.Sc., M.Phil., Ph.D.
<b>Designation</b>	Associate Professor
<b>Area of specialization</b>	Magneto Hydro Dynamics (MHD) – Convection
<b>Date of Joining BNMIT</b>	24.08.2007
<b>Nature of Association (Regular/Contractual/Adjunct)</b>	Regular
<b>e-mail</b>	npchandrashekara@bnmit.in npchadnrashkara@gmail.com
<b>No. of years of Experience</b>	Teaching: 21 years Research: 7 years



### Academic Qualifications

- **Ph. D.** ( Applied Mathematics), BNMIT, Bangalore, Visvesvaraya Technological University, Belgaum (2014)
- **M.Phil.** (Applied Mathematics): Central College, Bangalore University, Bangalore (1997)
- **M.Sc.** (Applied Mathematics): Central College, Bangalore University, Bangalore (1995)
- **B.Sc.** (Physics, Chemistry & Mathematics): Dayananda Sagar College, Bangalore University, Bangalore (1993)

### Working Experience Details

- Working as Associate Professor, Department of Mathematics, B. N. M. Institute of Technology, Bangalore, India, (2012 – Till date).
- Worked as Assistant Professor, Department of Mathematics, B. N. M. Institute of Technology, Bangalore, India, (2007 – 2011).
- Worked as Senior Lecturer, Department of Mathematics, R. V. College of Engineering, Bangalore, India (2006 – 2007).
- Worked as Lecturer, Department of Mathematics, R. V. College of Engineering, Bangalore, India, (1998 – 2006).
- Worked as Lecturer, Department of Mathematics, N.M.K.R.V. First Grade College for Women, Jayanagar, Bangalore University, Bangalore, (1996 – 1998).

### Subject taught

#### Graduate Level:

- Engineering Mathematics I, II, III & IV
- Graph Theory
- Discrete Mathematical Structures
- Mathematics for undergraduate (B.Sc.,)

#### Post Graduate Level:

- Statistics for Management (MBA)
- Mathematics for MCA (VTU)

**Title of Thesis:****M. Phil:**

Double Diffusive Convection in Isotropic and Anisotropic porous channel

**Ph.D:**

Convection of a Boussinesq-Stokes Suspension and Micropolar Liquids in an enclosure

**Research Supervision****Guiding students of Doctoral Degree**

Sl. No.	Name of the student	University	Title of Research Topic
1	Rajashree S. (1BG16PGJ04)	VTU, Belgaum	Convection in Ferromagnetic Nanoliquids
2	Raghu N. (1BG16PGJ03)	VTU, Belgaum	Convection in Dielectric Nanoliquids
3	Amrutha H. P. (1BG17PGA01)	VTU, Belgaum	Convection in Nanoliquids occupying a tilted slot

**NPTEL Online certification courses**

Sl. No	Title of the course	Duration of the course	Date of exam	Score	Type of certificate
1	Mathematical Methods and Its applications	January-April 2019 (12 weeks)	27 <sup>th</sup> April 2019	80 %	Elite-Silver

**Academic Positions and other Responsibilities (University Level):**

1. **Member**, Board of Examiners (Mathematics), Visvesvaraya Technological University, Belagavi for the academic year 2016- 2017.
2. Worked as *External Deputy Superintendent* for the conduct UG / MCA / MBA /M.Tech., May –June 2015, VTU examinations at Dayananda Sagar College of Engineering, Bangalore.
3. *External Deputy Superintendent* for the conduct UG / MCA / MBA December 2014, VTU examinations at AMC College of Engineering, Bannerugatta Road, Bangalore.
4. **Member**, Squad for the conduct UG / MCA / MBA June/ July 2008 VTU examinations.

**Academic Positions and other Responsibilities (Institute Level):**

1. Member, Editorial Board, International Conference on Fluid Dynamics and its Applications, held at BNM Institute of Technology, Bangalore during 12 – 14, July 2017.
2. Member, Editorial Board, International Conference on Fluid Dynamics and its Applications, 20 - 22, July 2011, B.N.M. Institute of Technology, Bangalore.
3. Member, Editorial Board, International Conference on Mathematical Modeling and Nonlinear Equations, 20 – 22, January 2010, B.N.M. Institute of Technology, Bangalore.
4. Member, Editorial Board, College Magazine, BNMIT, 2009.
5. Member, Editorial Board, Indian Society of Theoretical and Applied Mechanics (ISTAM-2007), 14 – 17, December 2007, B.N.M. Institute of Technology, Bangalore.

### **Professional Memberships:**

- **Life Member**, Indian Society for Technical Education(ISTE): LM -33423.
- **Life Member**, Indian Society of Theoretical and Applied Mechanics (ISTAM): L-941.

### **Workshops /Seminars Organized:**

1. **Member of the organizing committee** International Conference on Fluid Dynamics and its Applications, held at BNM Institute of Technology, Bangalore during 12 – 14, July 2017.
2. **Member of the organizing committee** International Conference on Fluid Dynamics and its Applications, held at BNM Institute of Technology, Bangalore during 20 – 22, July 2011.
3. **Member of the organizing committee** for International Conference on Mathematical Modeling and Nonlinear Equations, held at BNM Institute of Technology, Bangalore during 20 – 22, January 2010.
4. **Member of the organizing committee** for Indian Society of Theoretical and Applied Mechanics (ISTAM'2007), held at BNM Institute of Technology, Bangalore during 14 – 17, December 2007.
5. **Member of the organizing committee** for **20<sup>th</sup> CSI Karnataka Student Convention** held at R.V. College of Engineering, Bangalore during 13 - 14, October 2006.
6. **Member of the organizing committee**, for **Two day National Conference on Mathematical Modeling**, held at R.V. College of Engineering, Bangalore during 12 - 13, April 2005.

### **Research Publications:**

#### **I. In National & International Journals**

##### **National Journal:**

1. S. Manjunath and N . P. Chandrashekar, Study of Thermal Convection in Micropolar Fluids Occupying a Rectangular Box, (2012), Mapana J. Sc., 3 (2012), pp. 129-142, ISSN: 0975-3303,

#### **II. In National/International Conference Proceedings**

1. S. Manjunath and N . P. Chandrashekar, Numerical Study of Thermal Convection in Boussinesq – Stokes Suspension Occupying a Rectangular Box, ASME Conf. Proc. 2011, 8th Thermal Engineering Joint Conference, Honolulu, Hawaii, USA, T10082-T10082-7 (2011), DOI: 10.1115/ AJTEC2011-44227. ISBN: 978-0-7918-3892-1.
2. S. Manjunath and N . P. Chandrashekar, Study of Linear Binary Fluid Convection in Newtonian Fluids Occupying a Rectangular Cavity, Conf. Proc. of International conference on Mathematical Modeling & Applied Soft Computing 2012, Coimbatore Institute of Technology, Coimbatore, India, 922 – 933, ISBN: 978-81-923752-1-2.
3. S. Manjunath and N . P. Chandrashekar, Convection in Newtonian fluids occupying rectangular cavities (2012), Proceedings of National Conference on recent trends in fluid mechanics, Tumkur University, Tumkur, India, May 16, 2012, pp. 25 - 34 , ISBN 978 – 81 -923151 – 5 – 7.

## **Papers presented in International/National Conferences**

### **International**

1. Influence of a second diffusing component on steady finite amplitude thermal convection in Newtonian liquids occupying a Rectangular Box, International conference on Fluid Dynamics and its Applications, organized by B. N. M. Institute of Technology, Bengaluru, 12 - 14, July 2017.
2. Effect of Gravity Modulation on Non-Linear Thermal Convection in a Newtonian liquid Occupying a Rectangular Box, 59th Congress of ISTAM, (An International Conference) organized by Alliance University, Bangalore, 17 - 20, December 2014.
3. Double Diffusive Convection in a Micropolar Liquid Occupying a Rectangular Box International Conference on Mathematical Modeling and Numerical Simulation(ICMMANS - 2013), organized by the Department of Applied Mathematics, School for Physical Sciences, Babadaheb Bhimaroo Ambedkar University (A Central University), Lucknow, 01 – 03, July 2013.
4. Influence of a Second Diffusing Component on Thermal Convection in Boussinesq-Stokes Suspension Occupying a Rectangular Box, 57th Congress of ISTAM (An International Meet) organized by the Department of Mathematics and Mechanical Engineering, Defence Institute of Advanced Technology (DIAT), Pune, 17 - 20, December 2012.
5. Study of Thermal Convection in Micropolar fluids occupying a Rectangular Box, International Conference on Emerging Trends in Fluid Mechanics and Graph Theory, organized by the Department of Mathematics, Christ University, Bangalore, 16 - 18, August 2012.
6. Study of Linear Binary Fluid Convection in Newtonian Fluids Occupying a Rectangular Cavity, International conference on Mathematical Modeling & Applied Soft Computing, organized by the Department of Mathematics, Coimbatore Institute of Technology, Coimbatore, India, 11- 13, July 2012.
7. Numerical Study of Thermal Convection in Newtonian Liquids Occupying Slender, Square and Rectangular cavities, International conference of 56th Congress of Indian Society of Theoretical and Applied Mechanics (ISTAM) – An International Meet, organized by the Department of Applied Mathematics and Humanities, S. V. National Institute of Technology, Surat, Gujarath, 19 - 21, December 2011.

### **National**

1. Numerical Study of Steady Linear Double Diffusive Convection with Soret and Dufour Effects in Newtonian Liquids Occupying a Rectangular cavity, Third National Conference on Emerging Trends in Fluid Mechanics and Graph Theory, organized by the Department of Mathematics, Christ University, Bangalore, 16 - 17, February 2012.
2. A Numerical Study of Thermal Convection in a Boussinesq-Stokes Suspension Occupying a Rectangular Box, the Second National Conference on Emerging Trends in Fluid Mechanics and Graph Theory, organized by Christ University, Bangalore, 11– 12, February 2011.

## **Participation in Training courses/Seminars/Workshops**

### **[a] Short Term Training Programme**

1. Two Week Workshop(TEQUIP) on Computational Fluid Dynamics, organized by the Department of Mathematics, BMS College of Engineering, Bangalore- 19, 09- 23, January 2008.
2. Training Programme for faculty of Engineering Colleges and Management Institutes(AICTE, New Delhi) organized by Indian Heritage Academy, Bangalore at R.V. College of Engineering , Mysore Road, Bangalore -59, 25 – 29, June 2007.

3. One week workshop on Downstream processing, organized by the Department of Biotechnology and Department of Chemical Engineering , R.V. College of Engineering, Mysore Road, 12- 16, March 2007.
4. Behavioral Skills Training Program- INFOSYS Campus Connect program, organized by R.V. College of Engineering, Mysore Road, Bangalore-59, 9 - 16, January 2006.
5. World Class Management Practices for Managing Professional Institution, organized by the Department of Industrial Engineering & Management, R.V. College of Engineering, Bangalore, 23 – 28, August 2004.
6. Fuzzy Logic in Engineering, organized by the Department of Mathematics and Computer Science Engineering, Sir MVIT, Bangalore, 22 – 26, March 2004.
7. Recent Trends in Material Science and Mathematical modeling, organized by the Department of Polymer Science and Technology and the Department of Mathematics, S.J. College of Engineering, Mysore, 28, July – 9 August, 2003.

#### **[b] Faculty Development Programme:**

1. Emerging Trends in Mathematics and its Applications organized by Ramaiah Institute of Technology, Bengaluru, 28 January – 2 February 2019.
2. Application of Mathematical Tools for Engineering Problems, organized by Ramaiah Institute of Technology, Bengaluru, 30 July – 4 August 2018.
3. Sampling Theory and Stochastic Process organized by Global Academy of Technology, Bengaluru, 24 – 25, March 2017.
4. Discrete Mathematics, Modeling & Development Program on Discrete Mathematics, Modeling & Computational Techniques in Science & Engineering organized by Ramaiah Institute of Technology, Bengaluru, 16 – 21, January 2017.
5. Theory and Applications of Mathematical Modelling in Engineering organized by MSRIT, Bangalore, 26 – 30, July 2016.
6. Applied Mathematics in Engineering organized by MSRIT, Bangalore, 12 – 14, January 2016.
7. Applied Mathematical Modelling organized by MSRIT, Bangalore, 13 – 15, July 2015.
8. Computational Techniques for Research organized by RVCE, Bangalore, 08 – 10, April 2013.
9. Innovative Teaching and Effective Communication, organized by B.N.M. Institute of Technology, Bangalore, 18 – 20, July 2012.
10. Internalize Intellectual Property & Strategic Management of Intellectual Property Rights, organized by VTU, Belgaum at BNMIT, Bangalore, 2, March 2012.
11. Quantitative Models in Supply Chain Management, organized by the Department of Industrial Engineering & Management, R.V. College of Engineering, Bangalore, 17 – 30, May 2004.

#### **[c] Conference**

1. Three day National Conference on Current Advances in Science & Technology, organized by K. S. Institute of Technology, Bengaluru, 10 - 12, May 2017.
2. Fifth National Conference on Emerging Trends in Fluid Mechanics, organized by the Department of Mathematics, Christ University, Bangalore, 14 – 15, March 2014.
3. National Conference on Mathematical Modeling with Engineering Applications, organized by Department of Mathematics, Govt. SKSJTI, Bangalore, 25 – 26, October 2013.
4. National Conference on Recent Trends in Fluid Mechanics, organized by the Department of Studies and Research in Mathematics and Centre for Industrial and Applied Mathematics, Tumkur University, Tumkur, 16, May 2012.
5. International Conference on Fluid Dynamics and its Applications, organized by the Department of Mathematics, BNMIT, Bangalore, 20 – 22, July 2011.

