


**Faculty Profile a brief Writeup with Maximum 150-200 words**

<h2 style="text-align: center;">Faculty</h2>	Dr. RANGARAJU B. V. B.Ed., M.Sc., M.Phil., Ph.D. Associate Professor Department of Mathematics East Point College of Engineering
	<p style="text-align: center;"><b>Profile*</b></p> <p>Dr. Rangaraju BV is an Associate Professor in the Department of Mathematics at East Point College of Engineering and Technology, Bengaluru. He has around 27 years of teaching and research experience. He obtained his Bachelor’s and Master’s degrees from Bangalore University. He Completed his Ph.D. in Fluid Mechanics from Visvesvaraya Technological University, Belgaum for the doctoral work on Onset of Electrothermoconvection in a dielectric fluid saturated porous layer. His research area of interest is Magnetohydrodynamics flows, Convective instability, Porous Medium, Heat and Mass Transfer, Newtonian and Non-Newtonian fluids. He has published 5 research papers in various National / International Journals and presented 5 papers in various National / International Conferences. Also, he has attended more than 35 FDP’s inside and outside the institution.</p>
	<p style="text-align: center;"><b>Publications</b></p> <p style="text-align: center;"><b>Books</b></p> <p style="text-align: center;">•</p> <p style="text-align: center;"><b>Journals</b></p> <ol style="list-style-type: none"> <li>1. B.V. Rangaraju, M.S. Gayathri, P.A. Dinesh, and B. Rushi kumar. “Effect of Thermal modulation on the Onset of Magneto-electrothermoconvection in a Dielectric Fluid Saturated Porous Medium in the presence of Uniform Electric field &amp; Magnetic Field”, International Journal of Special Topics and Reviews in porous Media.9(2),133-144(2018).</li> <li>2. B.V. Rangaraju, M.S. Gayathri, P.A. Dinesh and H.S.Doreswamy. “Effects of Thermal modulation and rotation on the Onset of Magneto-electrothermoconvection in a dielectric fluid saturated porous medium”, International Research Journal of Bulletin of mathematics and Statistics Research. 6(4), 18-34, ISSN: 2348-0580(2018).</li> <li>3. B.V. Rangaraju, M.S. Gayathri and P.A. Dinesh “Effect of Electric modulation on the Onset of Magneto-electrothermoconvection in a Dielectric Fluid Saturated Porous Medium in the presence of Uniform Temperature and Magnetic Field”. Multidiscipline Modelling in Materials and Structures (MMMS). 2021 (communicated for publication).</li> <li>4. <b>B.V. Rangaraju and M.S. Gayathri and P.A. Dinesh</b> “The Onset of Magneto-electrothermoconvection in a Dielectric Fluid Saturated Rotating Porous Medium”. <b>International Journal of Scientific Research in Science and Technology (IJSRST)</b>, Vol. 8 (2), 85-99, ISSN: 2395-6011, Online ISSN: 2395-602X (www.ijsrst.com) 2020.</li> <li>5. <b>B.V. Rangaraju and Ramesh T</b> “Mathematical Analysis of Reactive Transport with Physical and Chemical Heterogeneity, Dissipation Coefficient and Sorption”, International <b>National Journal of Scientific Research in Science and Technology</b>, Vol. 67(7), 128-137, ISSN: 2395-6011 (2021).</li> <li>6. <b>B.V. Rangaraju and Ramesh T</b> “Mathematical Modelling of Convective Transport of Dispersion in One-Dimensional Flow of Saturated and Unsaturated Porous Media”, International Journal of Mathematics Trends and Technology, 67(7), 169-177, ISSN: 2231 – 5373 (2021).</li> </ol> <p style="text-align: center;"><b>Magazines</b></p>

### Conferences

1. One day workshop on **Fluid Mechanics** held on 24.12.1997 at Department of mathematics, Bangalore University, Bangalore
2. Two-day symposium on **“Recent Trends in Fluid Mechanics”** during Feb. 21-22, 1998 at Central College Campus, Bangalore University, Bangalore.
3. One day workshop on **“Z-transform & Applications”** held on 27<sup>th</sup> August 2003, Organised by Department of mathematics, at East Point College of Engineering & Technology, Bangalore.
4. One day workshop on **“Probability & Statistics”** held on 29<sup>th</sup> March 2004 at AMC Engineering College, Bangalore.
5. One day workshop on **“Scheme of Teaching of Discrete mathematical Structure’s”** held on 12<sup>th</sup> September 2004 at AMC Engineering College. Bangalore.
6. Two-day Workshop on **“Applications of Mathematics in Engineering & Technology”** held on 5<sup>th</sup> & 3<sup>rd</sup> of November 2004 at AIT, Chikmangalore.
7. One day workshop on **“Graph Theory & Combinatorics”** held on 14<sup>th</sup> March 2005 at AMC Engineering College. Bangalore.
8. **“Application of science in Engineering & Technology”** held on 7<sup>th</sup> may 2005 at Ghousia College of Engineering & Technology, Ramanagar.
9. QIP short term course on **“Force casting Technologies in Business & Industry”** held during 12<sup>th</sup> to 18<sup>th</sup> December 2005 at IIT Kharagpur.
10. Attended two-day workshop on **“Nanotechnology”** organized by MSRIT, Bangalore held during 5 & 6, October, 2006.
11. One day workshop on **Z-transform & Applications** held on 27<sup>th</sup> August 2008, Organised by Department of mathematics, at East Point college of Engineering & Technology, Bangalore.
12. National Seminar on **Mathematical modeling & Applications** on April 12<sup>th</sup> 2012 at Department of Mathematics, Don Bosco institute of technology, Bangalore.
13. Two day **“National Conference on Mathematics and its Applications”** organized by Department of mathematics, Adichunchanagiri Institute of Technology, Chikkamagaluru held during 22<sup>nd</sup>-23<sup>rd</sup> December 2015.
14. Two-day workshop on **“Research Methodologies and Report writing”** organized by MSRIT, Bengaluru held during 28<sup>th</sup> - 29<sup>th</sup> May, 2016.
15. One day workshop on **“probability & Statistics”** organized by AMC Engineering College, Bengaluru held on 29<sup>th</sup> March 2017.
16. One week Technical Education Quality Improvement Programme (TEQIP)-II on **“Advanced Numerical Techniques for Engineers and Researchers (ANTER-2017)”** organized by BMS College of Engineering, Bengaluru held during 23<sup>rd</sup> - 28<sup>th</sup> January, 2017.
17. One day workshop titled **“Learner Centered Approach to Teaching”** organized by Work Integrated programmes Division, BITS, Pilani on 2<sup>nd</sup> April 2017 in Bengaluru.
18. Three-day International Conference on **“Fluid Dynamics and its Applications”** organized by B.N.M Institute of Technology, Bengaluru held during 12<sup>th</sup> -14<sup>th</sup> July 2017.
19. Three Day Faculty Development Programme on **“Research Methodology”** organized by East Point college of Engineering & Technology, Bengaluru held during 14<sup>th</sup> - 16<sup>th</sup> January 2018.
20. Five-day faculty development Programme on **“Application of Mathematical Tools for Engineering Problems”** organized by Department of Mathematics, MSRIT, Bengaluru held during 30<sup>th</sup> July - 4<sup>th</sup> August 2018.
21. Five day **“FDP on Recent Advances in Material Science and Mathematical Application”** organized by Department of Basic Science, Ghousia College of Engineering, Ramanagara held during 15<sup>th</sup> -19<sup>th</sup> June 2020.
22. Four day **“National webinar on Fluid Mechanics and its Applications in Engineering Science Conference on Mathematics and its Applications”** organized by Department of mathematics, PES Institute of Technology and management, Shivamogga held during 24<sup>th</sup> -27<sup>th</sup> June 2020.

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23. One day “**National webinar on Recent Trends in Mathematics**” organized by Department of Computational Science and Humanities, Indian Institute of Information Technology Kottayam held on June 29, 2020.
24. Five day “**National webinar on Mathematical Perspectives on computational science and Engineering**” organized by Department of mathematics, Ramaiah Institute of Technology, Bengaluru held during 6<sup>th</sup>-10<sup>th</sup> July 2020.
25. Two day “**National Conference on Science, Engineering and Management NCSEM**” organized by Department of mathematics, Oxford College of Engineering Technology, Bengaluru held on 15<sup>th</sup> and 16<sup>th</sup> July 2020.
26. National Level Quiz on “**Basics on Engineering Mathematics**” organized by Dept. of Mathematics, Sir M Visvesvaraya Institute of Technology, Bengaluru held on 27.07.2020
27. One day “**International Conference on Numerical and Scientific Computing**” organized by Department of Mathematics and Statistics, School of Basic Science Manipal University, Jaipur held on 28<sup>th</sup> July 2020.
28. Five-day faculty development Programme on “**An Introductory Course on Fluid Dynamics**” organized by the Department of Mathematics, CHRIST (Deemed to be University), Bangalore during 17-20 August and 24-28 August 2020.
29. Five-day faculty development Programme on “**An Introductory Course on Fluid Dynamics**” organized by the Department of Mathematics, CHRIST (Deemed to be University), Bangalore during 17-20 August and 24-28 August 2020.
30. Five-day faculty development Programme on “**Applications of Fluid Dynamics and Advanced Materials**” from 24th to 28th August, 2020 organized by Departments of Applied Science and Humanities, Bheemanna Khandre Institute of Technology, Bhalki.
31. Two day “**National Conference on Applied Sciences Synergising the Engineering and Technology (ASSET)**” organized by department of basic sciences, East Point College of Engineering Technology, Bengaluru held on January 18<sup>th</sup> -19<sup>th</sup>, 2021.
32. One day International Webinar Series-II on “**Challenges and Opportunities in Higher Education beyond COVID-19**” organized by Dr.Ambedkar institute of Technology, Bengaluru held on 27-06-2021.

**Achievements / Awards / Recognitions**

- BOE Member – VTU
- Paper valuer for UG/PG Exams – VTU
- Paper setter for UG/PG Exams – VTU
- One of the Co-Ordinator – VTU Examinations.
- Deputy Chief Superintendent (External) – VTU - UG/PG Exams
- Deputy Chief Superintendent (Internal) – VTU - UG/PG Exams
- Squad committee member/chief – VTU - UG/PG Examinations
- Part of Departmental NBA Accreditation Team
- Time Table Co-Ordinator
- Completed NPTEL Course on **Mathematical Methods and its Applications** (12Weeks) on the SWAYAM platform (swayam.gov.in), during the Jan-Apr 2020.
- Completed NPTEL Course on **Transform Calculus and its applications in Differential Equations** (12Weeks) on the SWAYAM platform (swayam.gov.in), during the Jan-July 2021.
- Program Organizing chair for organizing National Conference on Applied Sciences Synergizing the Engineering and Technology (ASSET-2021), during the January 18th -19th, 2021
- Program Organizing chair for organizing National Conference on Recent Advancements in Applied Sciences (RAAS-2023) held on 28<sup>th</sup> July 2023

**Papers Presented**

## Website Contents

1. Combined Effects of Thermal Modulation, Uniform Electric & Magnetic Fields on the Onset of Magneto-electroconvection in a Dielectric Fluid Saturated Porous Medium, National Conference on Mathematics and its Applications, organized by the Department of mathematics, Adichunchanagiri Institute of Technology, Chikkamagaluru held during 22<sup>nd</sup>-23<sup>rd</sup>, December 2015.
2. Combined effects of electric modulation, uniform temperature and magnetic fields on the onset of Magneto-electroconvection in a dielectric fluid saturated porous layer, International Conference on Fluid Dynamics and its Applications, organized by the Department of mathematics, BNM Institute of Technology, Bengaluru held during 12<sup>th</sup> -14<sup>th</sup>, July 2017.
3. The Onset of Electrothermoconvection in a Dielectric fluid Saturated Porous Medium in the Presence of Magnetic field, International Conference on Recent Trends in Applied and Computational Mathematics, organized by the Department of mathematics, Reva University, Bengaluru held during 4<sup>th</sup> - 5<sup>th</sup>, December 2020.
4. The Onset of Magneto-electrothermoconvection in a Dielectric fluid Saturated Rotating Porous Medium in the Presence of Magnetic field, National Conference on Applied Sciences Synergising the Engineering and Technology (ASSET-2021), Organized by the Department of Basic Science, East Point College of Engineering and Technology, Bengaluru held during 18<sup>th</sup> - 19<sup>th</sup>, January 2021.
5. The Mathematical Analysis of Reactive Transport with Physical and Chemical Heterogeneity, Dissipation Coefficient and Sorption, National Conference on Applied Sciences Synergising the Engineering and Technology (ASSET-2021), Organized by the Department of Basic Science, East Point College of Engineering and Technology, Bengaluru held during 18<sup>th</sup> - 19<sup>th</sup>, January 2021.

