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DEPARTMENT OF MATHEMATICS

Activities in the month of July 2024

July 10, 2024: Dr. Anthony Christy Melson Asst. Professor, Dept. of Mathematics, has presented a paper entitled "Linear Instability Analysis of Convection in Viscoelastic Ferroliquid with Time – periodic Vertical Oscillations " in the 2nd International Conference on Recent Advances in Fluid Mechanics and Nanoelectronics (ICRAFMN - 2024) organised by Manipal University Jaipur in association with Manipal Institute of Technology Bengaluru, NIT Uttarakhand, University Malaysia Phang AI- Sultan Abdullah, Malaysia, & Kasetsart University, Thailand during July 10-12, 2024.

July 10, 2024: Dr. Meghana J, Asst. Professor, Dept. of Mathematics, has presented a paper entitled "Effect of sinusoidal and non-sinusodial two – frequency rotation modulation on Rayleigh- Benard Ferroconvection in Boussinesq – stokes suspension" in the 2nd International Conference on Recent Advances in Fluid Mechanics and Nanoelectronics (ICRAFMN - 2024) organised by Manipal University Jaipur in association with Manipal Institute of Technology Bengaluru, NIT Uttarakhand, University Malaysia Phang AI- Sultan Abdullah, Malaysia, & Kasetsart University, Thailand during July 10-12, 2024.

July 10, 2024: Mrs. Shazia P.A., Asst. Professor, Department of Mathematics, presented a research paper entitled "Nonlinear Rayleigh-Benard convection in a rotating dielectric liquid under time-periodic boundary temperature" in the 2nd International Conference on Recent Advances in Fluid Mechanics and Nanoelectronics (ICRAFMN-2024)" organized by Manipal University Jaipur, in association with MIT Bengaluru and National Institute of Technology Uttarakhand to be held during 10th to 12th July 2024.

July 17, 2024: Dr. Chaitra V. Asst. Professor, Department of Mathematicsattended an AICTE-sponsored 8-day face-to-face residential faculty development program on Universal Human Values II from 17/07/2024 to 24/07/2024 at JSPM Rajarshi College of Engineering, Pune.

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July 10, 2024: Dr. Gayathri M S. Asst. Professor, Department Mathematics, published a paper entitled "Study of MHD Nanofluids Boundary layer flow past stretching surface placed in porous media" in the 2nd international conference on Recent Advances in Fluid Mechanics and Nano electronics" between 10-12 July 2024, in Manipal University Jaipur, and Awared as Best paer in F D ICFMN – 2024-FD – 254.

July 17, 2024: Dr. Chaithra V. Asst. Professor, Department Mathematics, has participated and successfully completed the 8 day face to face UHV – II FDP organised by All India Council for Technical Education (AICTE) at JSPM's Rajarshi Shahu College of Engineering Pune form 17th July to 24th July 2024.

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Activities in the month of August 2024

August 12, 2024: Dr. Hemanth Kumar C Asst. Professor, Dept. of Mathematics, presented certificate for participating in the Event at Dayanand Sagar Memorial Cup – An Annual State Level Intercollegiate Staff Badminton Tournament organised at DSATM on 12th and 13th August 2024.

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Activities in the month of September 2024

September, 2024: Dr. Veena Jawali, Professor, Dept. of Mathematics, published the research article, titled " The Analytical Study of double diffusive convection in a rectangular enclosure bounded by porous lining with thermal radiation" in the Scientific Reports (2024) 14:17095. https://doi.org/10.1038/s41598-024-67998-4

September 10, 2024: Dr. Anthony Christy Melson, Dr. Silva Leera Sequira & Dr. Chandrashekara G, Asst. Professors, Dept. of Mathematics have completed the Internship Program at Ardent Software on Data Science, AI, Machine Learning Using Python from August 1, 2024 to September 10, 2024 in Ardent Software Services .

September 10, 2024: Dr. Umesha V, Asst. Professor, Dept. of Mathematics, has presented paper titled "Establishing Quardrature rules for Numerical Intigration by contrasting hybrid Functions & Haar wavelets" in the 2nd international conference on Emerging Trends in Engineering and Applied Sciences 2024 (ICETEA 2024) held on 18th & 19th September 2024 at SJC Institute of Technology, Chikkaballapur

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Activities in the month of October 2024

October 29, 2024: Dr. Chandra Shekara G, & Dr. Hemanth Kumar C, Asst. Professors, Dept. of Mathematics, published the research article, titled " Stability Anaysis of Mixed Convection of Nanofluid Flow Through a Horizontal Porous Channel Using LTNE Model" in Microgravity Science and Technology (2024) - Springer in October 29, Vol. **36** (56) 2024. Page No.1-21 https://doi.org/10.1007/s12217-024-10140-w

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Activities in the month of November 2024

November 08, 2024:

EUREKA ORIENTATION (2024)

On November 8, 2024, Pentagram - The Mathematical Society of BMSCE hosted an orientation, presenting a sophisticated yet welcoming event for both current and prospective members of the mathematical community. The gathering aimed to illuminate the club's mission and aspirations while cultivating camaraderie among Mathematics enthusiasts through a series of meticulously curated activities. The core members took centre stage to convey the club's vision and elaborate on forthcoming initiatives

November 25, 2024: Dr. Madhukar K. Asst. Professor, Department of Mathematics, has participated in the One Week National Level Online Workshop on Mastering Python Programming for Mathematics held on November 25 to 29, 2024 organised by Indian Mathematics Professors Association and Infinity Research & Development Institute, Coimbatore.



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Activities in the month of December 2024

December 2024: Dr. Chandra Shekara G, Asst. Professor, Department of Mathematics, has presented a paper entitled "Linear and Non – Linear Stability Analysis of the Mixed Convective Flow of Jeffrey Fluid through the Porous Medium using the LTNE Model" at the 6th International Conference on Applications of Fluid Dynamics (ICAFD) – 2024 held from December 5 to 7, 2024 organised by the Dept. of Mathematics, School of Advanced Sciences, Kalasalingam Academy of Research and Education, Krishnankoil, Virudhunagar, Tamil Nādu, in collaboration with the University of the West Indies, St. Augustine Campus, Trinidad & Tobago, West Indies and the University of Dodoma, Dodoma, Tanzania

December 12, 2024: Dr Bandaru Mallikarjuna , Asst. Professor. Dept. of Mathematics was invited as guest lecture to impart the knowledge on "Discrete Fourier Transforms and Fast Fourier Transforms" held on 12-12-2024 organized by department of mathematics, Dayananda Sagar Academy of Technology & Management, Bangalore.





December 13, 2024: Dr. Chandra Shekara G, Asst. Professor, Department of Mathematics, Delivered a Guest lecture on "Mathematical modelling and its importance in Engineering " at Cambridge Institute of Technology, Bangalore on 13th December 2024



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December 19, 2024: Dr. Meghana J, Asst. Professor, Department of Mathematics, presented the paper titled "Three- Component Ferroconvections in a couple Stress Fluid with Cross Diffusion" in the 69th Congress of Indian Society of Theoretical and Applied Mechanics (ISTAM) Organised by the centre for Mathematical Needs, Department of Mathematics, CHRIST (Deemed to be University) Bengaluru, in collaboration with ISTAM during 19-21 December 2024.

December 12, 2024: Dr Bandaru Mallikarjuna , Asst. Professor. Dept. of Mathematics was invited as a guest for National Mathematics Day celebrations held on 24-12-2024 by the Department of mathematics, Akshaya Institute of Technology, Tumkur. Delivered a talk on "Essential Mathematics for Engineers".





December 21, 2024: Department of Mathematics was organised Guest Lecture entitled "Funding R&D Opportunities" on 21st December . Prof. PS Rao, Associate Professor, IIT (ISM), Dhanbad was delivered the Lecture

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Activities in the month of January 2025

January 19 - 2026: : Dr. Chandra Shekara G Associate Professor, Dept. of Mathematics, has participated in Three Day Workshop on "Quantum Technologies: Fundamentals, Computation and Applications" during January 19-21, 2026 organized by Karnataka Science and Technology Academy, Dept. of Science and Technology, Govt of Karnataka Bangalore

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Activities in the month of February 2025

February 3, 2025: Dr. Silvia L Sequeira, Associate Professor, Dept. of Mathematics, BMSCE, has completed Scintillation: A 2 day intense Leardership Development Program, focused on Leadership Skills in the VUCA world, vision, creation, effective mentoring, conflict resolution, effective communication, team Building and relationships, organized by BMSCE and conducted by SKILLFIX, on 21-22 Feb 2026

February 3, 2025: Dr. Silvia L Sequeira, Associate Professor, Dept. of Mathematics, BMSCE, has participated in the One week National Level Online Workshop on Exploring Linear Algebra and Graph Theory with Sagemath held from February 3 to 7, 2025.

February 17, 2025: Dr. Silvia L Sequeira, Associate Professor, Dr. Chaitra V, Dr. Hemanth Kumar C and Dr. Meghana J Asst. Professors, Dept. of Mathematics, BMSCE, has participated & Completed AICTE Training (ATAL) FDP Programme on Sustainable Health with Technological Advancements at BMS College of Engineering from 17th to 22nd February 2025.

February 2026: : Dr. Hemanth Kumar C Asst. Professor, Dept. of Mathematics, has reviewed for AIP Publishing, in January 2026.

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Activities in the month of March 2025

March 15, 2025: Dr. Madhukar K, Asst. Professor, Dept. of Mathematics, BMSCE, has participated in the FDP Program on MATLAB organized by the Department of CSE (Data Science), BMSCE, on 15th March 2025

March 15, 2025: Pentagram - The Mathematical Society of BMSCE, organized two events as a part of the club's monthly activities. Following is a short summary of the two events conducted.

1. **Spin the Pi wheel**

On March 15, 2025, Pentagram - The Mathematical Society of BMSCE organized Spin the Pi Wheel as a part of the Pi Day celebrations. This exciting event was designed to test participants' mathematical aptitude, logical reasoning, and puzzle-solving skills through multiple engaging rounds. The event witnessed enthusiastic participation, with a total of 51 participants present on the day of the competition. The event consisted of 3 rounds viz. Round 1: prelims and lights up puzzle, Round 2: Wikirace and Round 3: spin the pi wheel (roulette challenge).

Harsha N Koundinya, a third-year student from the Information Science and Engineering branch, emerged as the winner followed by the runner-up, Sathwik B C, a third-year student from Information Science and Engineering.

The organizers ensured a seamless execution of all rounds, keeping the energy high throughout the competition. The event was met with great enthusiasm from both participants and spectators where attendees appreciated the uniqueness of the event format, particularly the integration of puzzle-solving with dynamic and engaging activities.



2. **Beyond Herizons**

Pentagram - The Mathematical Society of BMSCE, in collaboration with BMSCE IEEE WIE, conducted the event Beyond HERizons on 17th March 2025, from 2:00 PM to 4:00 PM as part of WIE WEEK. The event was divided into three rounds. Rounds 1 and 2 were elimination rounds. Round 2 consisted of three sub-rounds. The first sub-round "Cryptic Clue Quest" involved concepts related to History, Science, Technology, Peace, Music, Sports, Politics, Civil Service, Literature, Acting, Business. The second sub-round was titled "Tower of logic". The third sub-round was titled "The Bloody Rank". The final round was titled "Teleportation Tiles". A total of 31 teams registered for the event, mainly comprising students in their 1st nad 2nd years, with 11 teams showing up. Team Vesuvius (Kirti Kumari and Garima Kedia) emerged as the winners followed by the runners up team Team Toblerone (Sahithya Arjunan & D.N. Jaishree).



March 15, 2025: Dr. Chandrashekara G & Hemanth Kumar C, Asst. Professors, Dept. of Mathematics, BMSCE, published the research paper titled "Stability Analysis of the mixed Convective flow of Jeffrey Nanofluid through a prorous medium" in the Journal Ther Eng, Vol. 11, No. 2, pp. 448−463, March, 2025. Published by Yıldız Technical University Press, İstanbul, Turkey.

March 15, 2025: Dr. Umesha V, Asst. Professors, Dept. of Mathematics, BMSCE, published a Book entitled "Discrete Mathematics and its Applications" Infinite Research (Registered under MSME,Govt of India) ISBN no: 978-93-48897-10-7, March 2025

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March 2025: Dr. Dhananjaih H N, Asst. Professors, Dept. of Mathematics & Humanities, BMSCE published a Book Chapter entitled "ಆಧುನಿಕ ಬದುಕಿನ ಮುನ್ನುಡಿ ಸರ್ವಜ್ಞನ ತ್ರಿಪದಿಗಳು" in the Book "ಉಣ ದಿರ್ಪಲಿಂಗಕ್ಕುಣ ಬಡಿಸಿ" on March 2025,, Published by Likhith Prakashana

March 2025: Dr. Dhananjaih H N, Asst. Professors, Dept. of Mathematics & Humanities, BMSCE published a Book Chapter entitled "ಆಧುನಿಕತೆ ಮತ್ತು ಸರ್ವಜ್ಞನ ವಚನಗಳು" in the Book "ಸರ್ವಜ್ಞನ ವಚನಗಳಲ್ಲಿ ಜೈನ ಧರ್ಮದ ಸಾರ " on March 2025,, Published by Likhith Prakashana

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Activities in the month of May 2025

MAY, 2025: Dr. M Shekar , Asst. Professor, Dept. of Mathematics, BMSCE, has presented the paper titled "Effect of General Boundary Conditions on the Brinkman – Benard Convection of Newtonian Nanoliquid Using Local Thermal Non- Equilibrium Model" in the Journal of Nanofluids 2025. Vol. 14, No. 1, Page No. 59-68

DOI: https://doi.org/10.1166/jon.2025.2218

MAY 10, 2025: Dr. Chandra Shekara G, Asst. Professor, Dept. of Mathematics, BMSCE, has delivered an invited Talk in the Four days National Level Mathematics FDP on "MATLAB with Computational Mathematics " and "CoreEL LED Matlab Software Training" During 10th to 13th May 2025 organized by the Department of Mathematics, Karnatak University Dharwad

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Activities in the month of June 2025

JUNE, 2025: Dr. Chandrashekara G Associate Professor & Dr. Hemanth Kumar C, Asst. Professor, Dept. of Mathematics, BMSCE, has presented the paper titled "Linear and Nonlinear Stability Analysis of Nano- Fluid Flow through a Low-Permeable Porous Channel" in the CFD Letters 17, Issue 11 (2025) Page No. 160-186. In June 2025.
https://doi.org/10.37934/cfdl.17.11.160186

JUNE 16, 2025: Dr. Silvia Leera Sequeira, Associate Professor, Ms. Shazia P.A. and Dr. Hemanth Kumar C. Asst. Professors participated in Two Weeks State Level Faculty Development program on "Role of AI in next Generation Applications" organized by Vidyalankar Polytechnic from 16th June to 28th June 2025.

JUNE 23, 2025: Dr. Deepthee M R & Dr. Meghana J, Asst. Professors participated in Five Day Online FDP on "Advanced Research in Fluid Mechanics" organized from 23rd to 27th June 2025 by Department of Mathematics, School of Advanced Sciences, Vellore Institute of Technology, Chennai.