



BMS COLLEGE OF ENGINEERING, BENGALURU-19

Autonomous Institute, Affiliated to VTU
DEPARTMENT OF MATHEMATICS

Activities in the month of July 2022

1. Dr. Sujatha N, Asst. Professor, Dept. of Mathematics received an appreciation letter by the Team Aarohan in Association with Karnataka State Excise Department, M Square Networks and National Service Scheme in recognition of enthusiasm and valued support in June 2022.
2. Dr. T N Vishalakshi, Professor, Dr. Gomathi P and Mr. Rahul R, Asst. Professors, Dept. of Mathematics attended the workshop on SWOC conducted by the Department of MBA, BMSCE on 9th July 2022.
3. Dr. Gayathri M S, Ms. Shazia P A, Dr. Silvia Leera Sequeira, Dr. Sujatha N, Mrs. Sheeba N, Dr. Deepthee MR and Dr. Hemanth Kumar C, Asst. Professors, Department of Mathematics have attended one day National Level (Online) seminar on “Digital Transformations under NEP 2020” conducted by IQAC, BMSCE in association with National Assessment and Accrediation Council (NAAC) on July 15, 2022.
4. Dr. B.Mallikarjuna, Asst. Professor, Department of Mathematics, Published a paper entitled " Numerical and Linear Regression Analysis of Slip Effects on Magnetohydrodynamics (MHD) Convective Cu-Water Nanofluid Flow in a Channel with Stretchable Walls", in "Journal of Nanofluids, Vol.11, pp.616-627, 2022. (Scopus and Web of science Journal) on July 2022.
5. Dr B.Mallikarjuna, Asst. Professor, Department of Mathematics, Published a book chapter entitled "Nano science and its role in the future of solar stills", pp. 427-440, Book: Industrial applications of Nano crystals, 2022, Publisher: Elsevier publishers. <https://doi.org/10.1016/B978-0-12-824024-3.00022-1>. In July 2022.
6. Dr. Sujatha N, Asst. Professor, Dept. of Mathematics, Presented paper titled “Think – Pair – Share Activity using Information and Communication Technologytools” in the International Conference on Multidisciplinary Research and Innovation (ICMRI 2022) held on 23 July 2022. Organised by ESN Publications



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7. Dr. Veena Jawali, Professor & Head, Dept. of Mathematics, published a paper entitled: "Quantification of Modifier in Polymer Modified Bituminous Binder Using Fourier Transform Infrared Radiation (FTIR) Spectrometer an Investigative Study to curb Adulteration in Modified Bitumen" in the UGC Care Approved Journal Stochastic Modeling & Applications. Vol.26, No.3 , ISSN No. 0972-3641, Special Issue on Innovative Research and Management, Applied Science and Engineering in July 2022
8. Dr. Sujatha N, Asst. Professor, Dept. of Mathematics received an appreciation letter by the Team Aarohan in Association with Karnataka State Excise Department, M Square Networks and National Service Scheme in recognition of enthusiasm and valued support in July 2022.
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10. Dr B.Mallikarjuna, Asst. Professor, Dept. of Mathematics, Published a book chapter entitled "Nano science and its role in the future of solar stills", pp. 427-440, Book: Industrial applications of Nano crystals, 2022, Publisher: Elsevier publishers. <https://doi.org/10.1016/B978-0-12-824024-3.00022-1>. In July 2022.
11. Dr Silvia Leera Sequeira, Asst. Professor, Dept. of Mathematics, nominated as External Member of the BOE in the school of Applied Mathematics, Dept. of Mathematics, REVA University, Bangalore in 11 July 2022
12. Dr. Sujatha N, Asst. Professor, Dept. of Mathematics, Presented paper titled "Think – Pair – Share Activity using Information and Communication Technologytools" in the International Conference on Multidisciplinary Research and Innovation (ICMRI 2022) held on 23 July 2022. Organised by ESN Publications




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Activities in the month of August 2022

1. Mr. Rahul R and Dr. Chandra Shekara G, Assistant Professors, Department of Mathematics co-authored a book titled " Cryptography and Network Security: Principal and Practices. Published by Scientific International Publication House during August 2022. ISBN No. 978-93-5625-338-4 in August 2022.
2. Dr. Bandaru Mallikarjuna, Asst. Professor, Dept. of Mathematics, published a research article entitled: "The Study of Heat Transfer Enhancement Due to Various Nanofluids between Rotating Stretchable Disks" in the International Journal of Ambient Energy in August-2022. DOI: 10.1080/01430750.2022.2111350 in August 2022.
3. Mrs. Sheeba N, Asst. Professor, Dept.of Mathematics & Humanities, published a research article entitled: "Constitutional Safeguards Against Construction – Related Pollution and the Right to Breathe Clean Air" in the Indian Journal of Law and legal Research, Vol. IV, Issue IV, ISSN No. 2582-8878, in August 2022.
4. Dr. Chaitra, Asst. Professor, Dept. of Mathematics is included as one of the members of Board of Studies (BoS) in Statistics in JAIN(Deemed-to-be-University), Bengaluru in August 2022.
5. Mr. Rahul R, Dr. Chandrashekar G, Dr. B. Mallikarjuna, Asst. Professors, Department of Mathematics Organised an Guest Lecture on "The Effect of Human Vaccination behaviour on Strain competition in the infectious disease : An imitation dynamics approach" on August 1, 2022, which was delivered by Dr. Aniruddha Deka, Postdoctoral Scholar: Kennedey Lab, Penn State Eberly College of Science, Pennsylvania, USA.

B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19
DEPARTMENT OF MATHEMATICS
PRESENTS
GUEST LECTURE
BY
Dr. Aniruddha Deka
Postdoctoral scholar: Kennedey Lab, Penn state Eberly
College of science, Pennsylvania, USA



TOPIC:
"The Effect of human vaccination behavior on strain competition in an infectious disease: An imitation dynamics approach"

Day & Date: Monday, August 1st 2022
Time: 11:00 am to 1:00 pm



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6. Mrs. Sheeba N, Asst. Professor, Dept. of Mathematics & Humanities, successfully completed the 12-day National Online Workshop on “Trends in Book and Journal Publishing” organised by Archbishop Kavukattu Central Library, Assumption College, Changanacherry , Kottayam Keral and the Research & Postgraduate Dept. of Economics, Bishop Kurialacherry College of Women, Keral in Association with Lore & Ed Research Associates, Kerala between 06-24 August 2022.
7. Dr. Nishitha. Asst. Professor, Dept. of Mathematics, participated in IP Awareness / Training program under “national Intellectual Property Awareness Mission” on August 6, 2022, organised by Intellectual Property Office India.
8. Dr. Nishitha. Professor, Dept. of Mathematics, participated in the 7 Day FDP Programme on “Advanced Research Methodology in Humanities & Social Sciences” held from 1st August to 7th August 2022 in School of Arts, Humanities & Social Sciences in association with RGNIPM Govt. of India Nagpur (Under National Intellectual Property Awareness Mission)
9. Dr. T.N. Vishalakshi, Professor, Dr. Gayathi M S, Dr. Gomathi P, Dr. Silvia Leera Sequeira, Dr. Sujatha N & Dr. Chaitra V, Asst. Professors, Dept. of Mathematics have successfully completed two weeks “Refresher Course in Applicable Mathematics” organised by the Teaching Learning Centre, Ramanujan College University of Delhi in collaboration of Dept. of Mathematics, SJCE and JSS S & TU, Mysuru from 26th July to 8th August 2022 and obtained Grade A+
10. In collaboration with WIE, Pentagram, the Mathematical Society of BMSCE organized an event named, ‘Pseudo Maths’ on 11th August 2022. The event consisted of three rounds: Spot it, solve it and roll it. The event was performed on observation, analytical and strategic skills of an individual. A total of 49 teams participated and it was a great success.



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Activities in the month of September 2022

1. Mr, Rahul R and Dr. Chandra Shekara G. Asst. professors, Dept. of Mathematics, Published a research article titled " Solar Power Generation in Smart Cities Using an Integrated Machine Learning and Statistical Analysis Methods" in International Journal of Photoenergy, Volume 2022, September 2022 <https://doi.org/10.1155/2022/5442304>
2. Dr. B. Mallikarjuna Asst. Professor, Department of Mathematics, invited as a resource person for the 5 Days FDP on " Hands on Training in MATLAB: Engineering Mathematics" Scheduled from 6th to 10th September 2022 in the School of Applied Sciences, Department of Mathematics, REVA University, Bangalore.





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3. Dr. Chaitra V, Asst. Professor, Dept. of Mathematics, attended One-on-One meetings with US Educational Institutes held at Hotel Ashok Bangalore on 14th September 2022.



4. Dr. Chaitra V, Asst. Professor, Dept. of Mathematics, coordinated Third Tech VC Conclave, in the LaLIT Ashok Bangalore on 15 and 16th September 2022.



5. Mrs. Sheeba N, Asst. Professor, Dept. of Mathematics has presented Designing Course Outcomes – Focused Questions organised by InPods. In 17 September 2022.





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6. BMSCE together with BMSCA & BMSCL celebrated Teachers Day on 30th September 2022 at 3 PM pm in Indoor Stadium, BMSCE. The event was organised and coordinated by the Department of Mathematics and Humanities, BMSCE. The Chief Guest for the event was Prof. B.K. Raghu Prasad, Former Chairman, Department of Civil Engineering IISc, Bengaluru. It was presided by Dr. P.Dayananda Pai, Chairman, BMSCE and Life Trustee, BMSET.
- ✓ On this occasion 80 Members of the Faculty and staff of the Institution under BMS Educational Trust were honored for completing 25 years of Service.
 - ✓ 22 Faculties were felicitated for obtaining their Doctoral Degree.
 - ✓ More than 50 Members of the faculty and staff members were welcomed into the Institution.
 - ✓ On this Moment “Nadaprabhugalu” the Kannada Book written by Dr. Dhananjaiah H N, Asst. Professor, Dept. of Mathematics & Humanities was released by our beloved Chairman, Dr. P.Dayananda Pai.





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Activities in the month of October 2022

1. Dr. Chandra Shekara G. Asst. Professor, Dept. of Mathematics, published a book chapter titled "Effect of Oblique Magnetic and Electric Fields on the Kelvin-Helmholtz Instability at the Interface Between Porous and Fluid Layers". In the book "Advances in Mathematical Modelling, Applied Analysis and Computation". Lecture Notes in Networks and Systems, vol 415. Springer, Singapore. https://doi.org/10.1007/978-981-19-0179-9_15, 14th October 2022, in October 2022., Publisher NameSpringer, Singapore
2. Rahul R, Assistant professor, Department of Mathematics Published a research paper titled " Allocation of optimal energy from storage systems using solar energy " in Journal of Energy Reports , Q2 journal with impact factor 4.937 , Volume 8, Pages836-846. In October 2022. <https://doi.org/10.1016/j.egy.2022.10.033>
3. Dr Chandra Shekara G. Asst. Professor, Dept. of Mathematics, published a article title "Machine learning Technique for improving the stability of Thermal Energy storage", Energy Reports, Volume 8, Supplement 8, 2022, Pages 897-907, in October 2022. Doi: <https://doi.org/10.1016/j.egy.2022.09.205>, (Q2 Web of Science)
4. Dr Chandra Shekara G. Asst. Professor, Dept. of Mathematics received grant of Rs. 2,00,000.00 under FRPS scheme with project title & quot; Thermal instability in a non-isothermal porous Channel saturated by a nanofluid" in 21 October 2022.
5. Dr Bandaru Mallikarjuna, Asst. Professor, Dept. of Mathematics received grant of Rs. 1,70,000.00 under FRPS scheme with project title & quot; Numerical study on heat transfer augmentation due to ternary hybrid Nano fluid in a square enclosure" in 21 October 2022.
6. Dr Chaitra V , Asst. Professor, Dept. of Mathematics received grant of Rs. 1,00,000.00 under FRPS scheme with project title & quot;" A Comprehensive analysis on change in student's human values post UHV Course" in 21 October 2022.



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7. Department of Mathematics organised One week Faculty Development Programme on Engineering Mathematics Using Python during 20th, 21st, 27th – 29th October, 2022. Dr. Gayathri MS, Dr. Chandrashekara G and Dr. B. Mallikarjuna, Asst. Professors Dept. of Mathematics were the Organising Members, Dr. Veena Jawali, Professor and Head was the convenor of this Program. The following faculty members actively participated and completed the Programme.

| | |
|-----|----------------------------|
| 1. | Dr. P. GEETHAVANI |
| 2. | Dr. VEENA JAWALI |
| 3. | Dr. RANGASWAMY |
| 4. | Dr. H. Y. SHRIVALLI |
| 5. | Dr. T. N. VISHALAKSHI |
| 6. | Dr. SHIVASWAMY P.M. |
| 7. | Dr. GAYATHRI M. S. |
| 8. | Dr. GOMATHI P. |
| 9. | Mr. RAHUL R. |
| 10. | Mr. ANTHONY CHRISTY MELSON |
| 11. | Dr. CHANDRASHEKARA G. |
| 12. | Mrs. SHAZIA P. A. |
| 13. | Dr. SILVIA LEERA SEQUEIRA |
| 14. | Dr. SUJATHA N. |
| 15. | Dr. MALLIKARJUNA B. |
| 16. | Dr. CHAITRA V |
| 17. | DR. DEEPTHI M R |
| 18. | DR. HEMANTH KUMAR C |





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Activities in the month of November 2022

1. Department of Mathematics and Department of Electronics and Telecommunication Engineering Organised One week Faculty Development Programme on Universal Human Values from 7th to 12th November 2022. Dr. H Y Shrivalli, Professor, Dept. of Mathematics, Dr. Sujatha N, Asst. Professor Dept. of Mathematics, Dr. Chaitra V, Asst Professor, Dept. of Mathematics and Dr. Rajeshwari Hegde, Professor Dept. of Electronics and Telecommunication were the Organising Members, Dr. Veena Jawali, Professor and Head was the convenor of this Program. Dr. M. S. Gayathri, Asst. Professor, Dept. of Mathematics attended this Programme.



2. Pentagram – The Mathematical Society of BMSCE conducted an event titled “Gamer Acre” on Saturday, 12th November 2022 from 1:30 PM to 5 PM. The event was limited to the Pentagram club members and comprised of 3 rounds with 45 participants. It was a great success and concluded with the announcement of the new core committee 2022-2023.



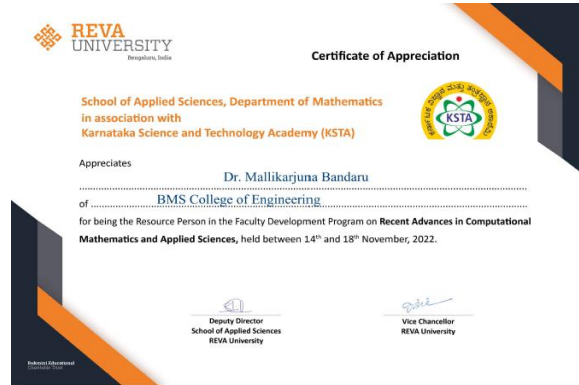


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3. Dr. B. Mallikarjuna, Asst. Professor, Dept. of Mathematics, delivered a talk on Faculty Development Program (FDP) “Recent Advances in Computational Mathematics and Applied Sciences” held from 14th to 18th November 2022 organized by the Department of Mathematics, Reva University, Bangalore.



4. Department of Mathematics conducted monthly activities on Language and Communication skills Development on 22 November 2022 under the guidance of IQAC. Dr. Gayathri M.S. Asst. Professor Dept. of Mathematics and Dr.Nishitha Asst. Professor Dept. of Mathematics were the Coordinators for this Programme.





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5. Department of Mathematics and Humanities organised one day orientation programme for VTU affiliated college teachers on “Revised Mathematics Syllabus – 2022” held on 24 November 2022 in association with VTU Belagavi. Dr. Rangaswamy, Associate Professor Dept. of Mathematics, was the convenor of this Program

The following faculties were in the Organising Committee

| | |
|----|----------------------------|
| 1 | Dr. P. GEETHAVANI |
| 2 | Dr. S. JAYANTHI |
| 3 | Dr. VEENA JAWALI |
| 5 | Dr. H. Y. SHRIVALLI |
| 6 | Dr. T. N. VISHALAKSHI |
| 7 | Dr. SHIVASWAMY P.M. |
| 8 | Dr. GAYATHRI M. S. |
| 9 | Dr. GOMATHI P. |
| 10 | Mr. RAHUL R. |
| 11 | Mr. ANTHONY CHRISTY MELSON |
| 12 | Dr. CHANDRASHEKARA G. |
| 13 | Mrs. SHAZIA P. A. |
| 14 | Dr. SILVIA LEERA SEQUEIRA |
| 15 | Dr. SUJATHA N. |
| 16 | Dr. MALLIKARJUNA B. |
| 17 | Dr. CHAITRA V |
| 18 | DR. DEEPTHI M R |
| 19 | DR. HEMANTH KUMAR C |
| 20 | Ms. SHEEBA N. |
| 21 | Dr. DHANANJIAH H N |
| 22 | Dr. NISHITHA |



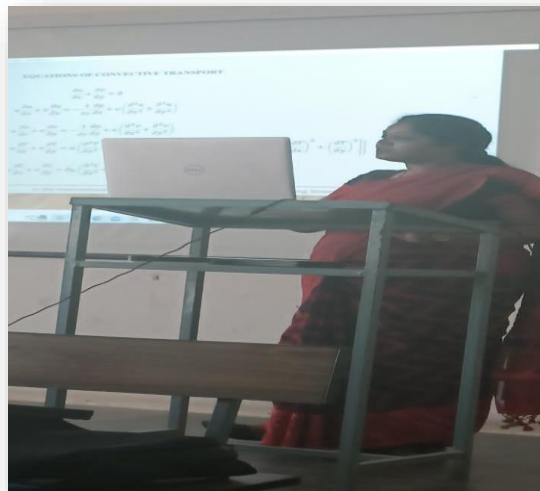
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| <p>About the Institution</p> <p>B.M.S. College of Engineering (BMSCE) was Founded in the year 1946 by Late Sri. B. M. Sreenivasiah a great visionary and philanthropist and nurtured by his illustrious son Late Sri. B. S. Narayan. BMSCE is the first private sector initiative in engineering education in India. BMSCE has completed 76 years of dedicated service in the field of Engineering Education. BMSCE today offers 17 Under Graduate & 16 Post Graduate courses, both in conventional and emerging areas. At present, 16 Departments are recognized as Research Centers offering Ph.D./M.Sc. Engineering by Research in Science, Engineering, Architecture and Management. First institution in the state bestowed with NBA Accreditation in Tier I Format (Washington Accord), World Bank funded TEQIP Phase I, Phase II, and Phase III Institute, and Partner Institution of the Mellon Foundation, USA, which advocates Global Citizenship with exchange of culture. BMSCE is an Autonomous Institute (UGC approved) since 2008. BMSCE has ranked 83rd in the NIRF Ranking 2022.</p> | <p>Chief Patron</p> <p>Dr. B. S. Raghunathan Donor Trustee, BMS Educational Trust</p> <p>Chairman, BMSCE and Life Trustee, BMSCE</p> <p>Dr. P. Deyananda Pal</p> <p>Treasurer, BMSCE</p> <p>Sr. Anurag Sharma Trustee, BMSCE</p> <p>Treasurer, BMSCE</p> <p>Sr. Ravi Venkatesam Trustee, BMSCE</p> | <p>Patrons</p> <p>Dr. S. Muraleedhar Principal, BMSCE</p> <p>Dr. Suresh Ramaswamy Reddy Vice-Principal (Admin), BMSCE</p> <p>Dr. Sheemaika Arya Vice-Principal (Academic), BMSCE</p> <p>Convener</p> <p>Dr. Rangaswamy Associate Professor</p> | <p>B.M.S. College of Engineering (An Autonomous Institution) in Association with Visvesvaraya Technological University, Belagavi</p> <p>One Day Faculty Orientation Program for VTU Affiliated College Teachers on Revised Mathematics Syllabus-2022</p> <p>ON 24th November 2022</p> <p>Organized by Department of Mathematics B.M.S. College of Engineering Bull Temple Road, Bengaluru-560 019</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>VISION</p> <p>Promoting Prosperity of mankind by augmenting Human Resource Capital through Quality Technical Education and Training</p> | <p>Organizing Committee</p> <table border="0"> <tr><td>Dr. P. GETHANJANI</td><td>Ms. SHEELA K.</td></tr> <tr><td>Dr. S. JAYATHRE</td><td>Dr. SHAMASHEKHAR H.N.</td></tr> <tr><td>Dr. VEENA SHIBALI</td><td>Dr. NIDHITHA</td></tr> <tr><td>Dr. H. Y. SHIBALI</td><td></td></tr> <tr><td>Dr. E. N. VIDYALAKSHI</td><td></td></tr> <tr><td>Dr. UNVANGANNAR P.M.</td><td></td></tr> <tr><td>Dr. GAYATHRI M. S.</td><td></td></tr> <tr><td>Dr. SOMASINI P.</td><td></td></tr> <tr><td>Ms. RAJES K.</td><td></td></tr> <tr><td>Ms. ANTHONY C. MESSINA</td><td></td></tr> <tr><td>Dr. LAKSHMI SURESH K.</td><td></td></tr> <tr><td>Ms. SHASHI K. A.</td><td></td></tr> <tr><td>Dr. SEVA DEEPA SUDHAKAR</td><td></td></tr> <tr><td>Dr. SURESH K.</td><td></td></tr> <tr><td>Dr. MALAKARUNA K.</td><td></td></tr> <tr><td>Dr. CHINTRA V.</td><td></td></tr> <tr><td>Dr. DEEPIKA R.</td><td></td></tr> <tr><td>Dr. HEEMANTH KUMAR C.</td><td></td></tr> </table> | Dr. P. GETHANJANI | Ms. SHEELA K. | Dr. S. JAYATHRE | Dr. SHAMASHEKHAR H.N. | Dr. VEENA SHIBALI | Dr. NIDHITHA | Dr. H. Y. SHIBALI | | Dr. E. N. VIDYALAKSHI | | Dr. UNVANGANNAR P.M. | | Dr. GAYATHRI M. S. | | Dr. SOMASINI P. | | Ms. RAJES K. | | Ms. ANTHONY C. MESSINA | | Dr. LAKSHMI SURESH K. | | Ms. SHASHI K. A. | | Dr. SEVA DEEPA SUDHAKAR | | Dr. SURESH K. | | Dr. MALAKARUNA K. | | Dr. CHINTRA V. | | Dr. DEEPIKA R. | | Dr. HEEMANTH KUMAR C. | | <p>Website: www.bmsce.ac.in Ph: 080 2662130-35 Fax: 080 26614257 E-Mail: info@bmsce.ac.in</p> | <p>Bengaluru, Karnataka, India BMSCE, WHR8+6CF, Bull Temple Rd, Basavanagudi, Bengaluru, Karnataka 560019, India Lat 12.940646° Long 77.566036° 24/11/22 10:37 AM GMT +05:30</p> | <p>GPS Map Camera</p> |
| Dr. P. GETHANJANI | Ms. SHEELA K. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dr. S. JAYATHRE | Dr. SHAMASHEKHAR H.N. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dr. VEENA SHIBALI | Dr. NIDHITHA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dr. H. Y. SHIBALI | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dr. E. N. VIDYALAKSHI | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Dr. GAYATHRI M. S. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dr. SOMASINI P. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Dr. SEVA DEEPA SUDHAKAR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dr. SURESH K. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dr. MALAKARUNA K. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dr. CHINTRA V. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Dr. HEEMANTH KUMAR C. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

6. Dr. Gayathri M S, Asst. Professor, Department of Mathematics and Humanities attended and presented paper entitled “Study of Boundary Layer Flow of a nanofluid on a stretching sheet by Spectral Collocation Method” in International Conference on Applied Research in Engineering Sciences ICARES – 2022, organised by the Department of Physics, Chemistry, Mathematics and Humanities, Ramaiah Institute of Technology, Bangalore on 24th and 25th November 2022.





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Activities in the month of December 2022

1. Dr. M S Gayathri, Asst. Professor, Dept. of Mathematics, Published a paper titled " Effect of Heat and Mass Transfer on a Couple Stress Fluid in an Asymmetric Channel with Peristalsis" in AIP Conference Proceedings (2022); <https://doi.org/10.1063/5.0109414> in December 2022.
2. Dr. Chandrashekara G Asst. Professor, Department of Mathematics, participated as Resource Person and deliver a lecture on the topic "Introduction to Python Programming – Hands on training" organised by Cambridge Institute of Technology Bangalore on 7th December 2022.



3. Dr. Chandrashekara G Asst. Professor, Department of Mathematics, deputed as Resource Person by VUT Belagavi and delivered lectures on the topic "Mathematics Using Python " organised by Vidyavardhaka College of Engineering, Mysore 8-10 December 2022.



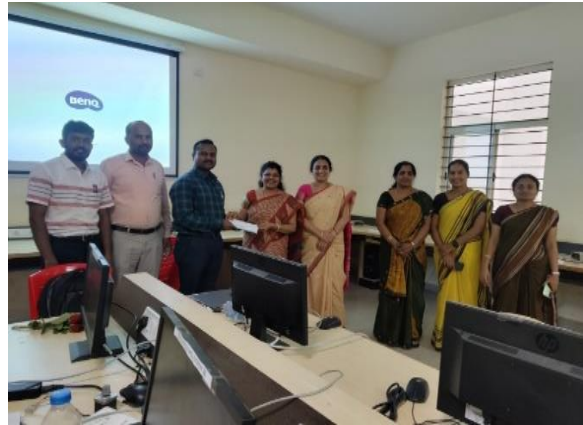


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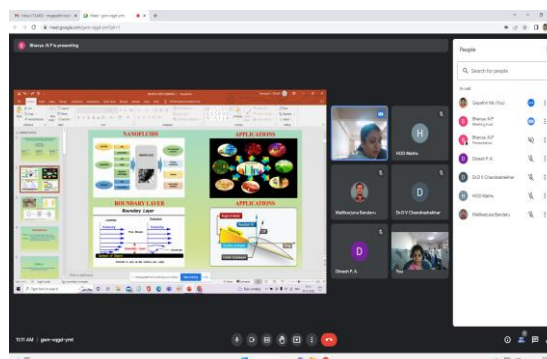
4. Dr. Bandaru Mallikarjuna, Asst. professor, Dept. of Mathematics, delivered a lecture on “Python Programming” on 8th Dec 2022 at Department of Mathematics, Cambridge Institute of Technology, Bangalore.



5. Department of Mathematics conducted monthly activities on Language and Communication skills Development on 13th December 2022 under the guidance of IQAC. Dr. Gayathri M.S. Asst. Professor Dept. of Mathematics and Dr.Nishitha Asst. Professor Dept. of Mathematics were the Coordinators for this Programme.



6. Ms. Bhavya N.P, bearing USN No. IBM15PGJ06N has presented her Open Seminar (through online mode) titled “Numerical Solutions for Boundary Layer Flow and Heat Transfer of Nanofluid over Stretching Sheet” under the guidance of Dr. M. S. Gayathri on December 10, 2022 at 11 AM.





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7. Dr. M Dr Bandaru Mallikarjuna, Asst. Professor, Dept. of Mathematics, delivered an invited talk on “Significance of Engineering Mathematics” organized by Department of Mathematics, Cambridge Institute of Technology, Bangalore on 22nd December 2022.



8. Dr. M S Gayathri Asst. Professor, Department of Mathematics, deliver a lecture on the topic "SCILAB for Mathemaitcs" for III Sem EEE Students organized by the department of mathematics, Dayananda Sagar Academy of Technology & Management on 24th of December 2022.





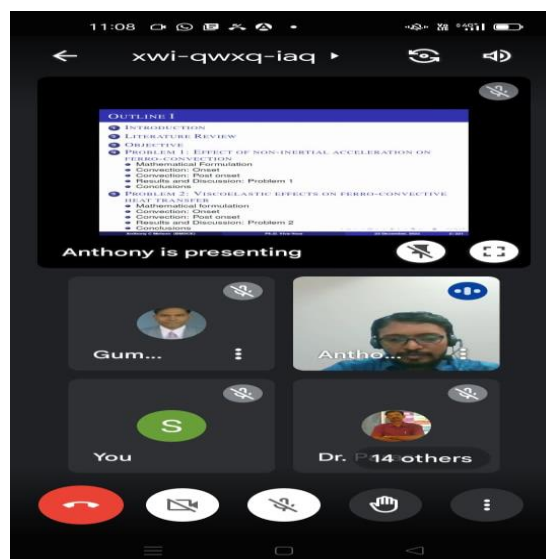
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9. Dr. Chandrashekara G Asst. Professor, Department of Mathematics, participated as Resource Person and deliver a lecture on the topic “Application of Scilab/wxMaxima in Engineering Mathematics” organised by Sapthagiri College of Engineering Bangalore on 28th December 2022.



10. Dr. Anthony Christy Melson, Asst. Professor, Dept. of Mathematics, , participated as Resource Person and deliver a lecture on the topic “Application of Scilab/wxMaxima in Engineering Mathematics” organised by Sapthagiri College of Engineering Bangalore on 29th December 2022.

11. Dr. Anthony Christy Melson, Asst. Professor, Dept. of Mathematics, , has presented his Final Ph.D Viva Voce through online mode titled “Oscillatory Convection and Heat Transport in Ferromagnetic Fluids” in BMSCE under the guidance of Dr. G N Sekar. Professor (Rtd) BMS College of Engineering, on 23-12-2022.





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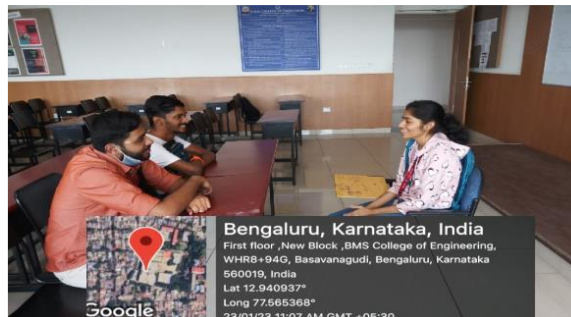
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Activities in the month of January 2023

1. Dr. Chandrashekara G, Asst. Professor, Department of Mathematics, was deputed as Resource Person by VTU Belagavi and delivered lectures on the topic "Mathematics Using Python " organised by KLS Gogte Institute of Technology , Belagavi during 5-7 January 2023.



2. Pentagram Recruitment Drive 2023 for first year students was conducted on 8th of January 2023. The event consists of two phases i.e. online test and interview.



3. BMS Model United Nations was hosted by B.M.S. College of Engineering, Bengaluru on the 7th and 8th of January 2023. BMSMUN 2023 consisted of 4 committees. , namely, United Nations General Assembly: Disarmament and International Security Committee (UNGA DISEC), United Nations Security Council (UNSC), All India Parties Meet (AIPM) and International Press Corps (IPC).

BMSMUN was presided over by Shashank Shenoy as Secretary General and Krish Sakriya as Deputy Secretary General. The event was sponsored by Island Hydraulics Pvt. Ltd.



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4. PENTAGRAM- The Mathematical Society of BMSCE, conducted an event “Meet & Greet” for the students on 27th of January 2023 between 4 PM – 5:30 PM at CR 213, 2nd floor, Platinum Jubilee Academic block. The event focused on interaction between the members of all years. It started off with the introduction of the core and the newly recruited members of the club. A glimpse of the club and the events conducted was given. A few games were played to get them interacting.





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Activities in the month of February 2023

1. Dr. Deepthee M R, Asst. Professor, Dept. of Mathematics published a paper entitled: “Concurrent Engineering of a medium level Assembly Using Virtual Tools” BULLETIN MONUMENTAL - ISSN / e-ISSN 0007-473X. Volume 24, Issue 1, Page No.7-11 on February 2023.
2. Dr. Deepthee M R, Asst. Professor and Dr. Hemanth Kumar C, Asst. Professor, Dept. of Mathematics published a paper entitled: “Wigner distribution function approach to analyze MIMO communication within a waveguide” in the Elseviere Heliyon journal Q1 Journal on 15 February 2023. <https://doi.org/10.1016/j.heliyon.2023.e13929>
3. Dr Umesha V, Asst. Professor, Dept. of Mathematics, published a paper entitled: “Chebyshev and Block Pulse Wavelet Approach for the Non-Linear Quasi-Singular Integral Equation” Vol.13 / Issue 76 / February / 2023, pp: 52994-5300, Indian Journal of Natural Sciences, ISSN: 0976 – 0997, February -2023 (Web of science).
4. PENTAGRAM: The Mathematical Society of BMSCE conducted its first event of the year, Lega-Lies on 27th February 2023 from 2 PM to 5 PM at Auditorium 2 of Platinum Jubilee Academic block. The theme of the event was focused on whitewashing your black currency by solving fun mathematical puzzles and games. 21 teams (team of 2) participated the event. The event saw great enthusiasm from participants. At the end of 4 rounds, Jai Gupta and Gargi Bharadwaj were declared the winners while Singla and Piyush Agarwal were declared the runners-up.





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5. Departments of Mathematics, Physics, and Chemistry collaboratively celebrated National Science Day - 2023 on 28th February 2023. Dr. Deshpande V Rajakumar, Director Neuo Surgery Fortis Hospital, Bannerghatta Road was the chief guest. Dr. Gayathi M S and Dr. Gomathi P Asst. Professors Dept. of Mathematics coordinated the event.



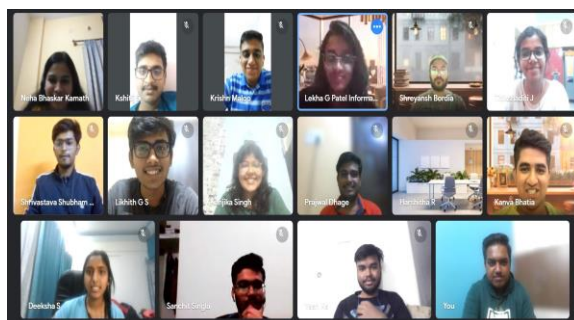


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Activities in the month of March 2023

1. Mrs. Sheeba N, Asst. Professor, Dept. of Mathematics presented a Paper on “Human Values and Environmental Sustainability” at the 2nd International Conference on Synthesized Carving of Human Values Organised by ALAPAN Holistic Educational Forum, West Bengal in collaboration with Qatar Aambal Tamil Sangam, Qatar. St. Antonys College of Arts and Sciences for Women, Dindigul, and G.T.N. Arts College (Autonomous), Dindigul on 3rd and 4th March 2023.
2. Mrs Pentagram – the Mathematical society of BMSCE conducted an online event “PI - ESTA” on 14th March 2023 in celebration of Pi- day. The event consisted of three rounds testing their analytical, logical and mathematical reasoning. The winner of PI ESTA was Kanjika Singh and the runner-up was Sanchit.



3. Mrs. Sheeba N, Asst. Professor, Dept. of Mathematics presented a Paper “Critical Analysis of Construction and Demolition Waste Management Rules 2016 for Sustainable Development” in the Two-day National Conference on The Changing Scenario of Environmental Jurisprudence organised by the Karnataka state Law University, Hubballi in association with SDM Law College, Mangalore, Govt. Law College, Hassan, Vaikunta Baliga College of Law, Udupi, M Krishna Law College, Hassan, Vivekananda Law College Puttur & KVG Law College Sullia on 18 th and 19 th March 2023 at SDM Law College Managalore.
4. Mr. Rahul R, Asst. Professor, Dr. Chandrashekara G Asst. Professor and Dr. Umesha V, Asst. Professor Dept. of Mathematics has participated in One Week FDP on “Recent Trends in Cybersecurity & Blockchain Technology” conducted by Department of Computer Science and Engg. BMSCE between 20th to 25th March 2023.



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Activities in the month of April 2023

1. Department of Mathematics in collaboration with Department of Physics and Department of Chemistry Organised One day Workshop on “Research Methodology Publication Ethics” on 18th April 2023.

The following faculty members attended the Workshop:

- Dr. Gomathi P
- Dr. Deepthee M R
- Dr. Hemanth Kumar C
- Dr. Meghana J

2. Ms. M. Santoshi Kumari, USN: 1BM16PGJ05 research scholar from the Department of Mathematics complied her Ph.D Final Viva Voce Examination from VTU, Belagavi under the Guidance of Dr. H Y Shrivalli and Dr. B. Mallikarjuna on 5th April 2023.
3. Dr. Chidanand Badiger, Asst. Professor, Dept. of Mathematics has attended workshop on “Density Functional Theory (DFT) Modelling and Machine Learning in Chemistry” from 12th to 13th April 2023 organized by Department of Chemistry, Ramaiah University of Applied Sciences, Bengaluru, Karnataka, India.
4. Dr. Deepthee M R, Dr. Hemanth Kumar C, Dr. Umesha V, Dr. Chidanand Badiger and Dr. Gireesh D S, Asst. Professors, Dept. of Mathematics have participated in One week FDP on “Computational Modelling and Statistical Analysis” conducted by Department of Biotechnology, BMSCE between 17th – 21st April 2023.
5. Dr. Chidanand Badiger, Asst. Professor, Department of Mathematics attended as a Resource person in a four day Workshop on “Algorithms and their Mathematical Foundations for applications” and delivered a lecture on the topic “Set Theory and logics: Importance in Algorithm” from 21st to 24th April 2023 Jointly organized by Mathematical Sciences Institute and Prof. Kishore Marathe School of Theoretical Physics and Theoretical Computer Science, Belagavi, Karnataka, India.



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6. Dr. P Gomathi, and Dr. Silvia L S. Asst. Professors Dept. of Mathematics have attended the “Workshop on Graph Theory and Applications” at Indian Institute of Science Bangalore on 22nd April 2023.
7. Dr. Deepthee M R, Dr. Hemanth Kumar C, Dr. Gireesh D S and Dr. Umesha V, Asst. Professors Dept. of Mathematics have successfully completed self-paced training course “Simulink Onramp” in the Month of April 2023.
8. Dr. Madhukar K, Asst. Professor, Dept. of Mathematics, published a paper entitled: “Numerical Study on Rheology and Dilute Suspensions of Periodically Forced Natural Rubber Bolls in Water at Low Reynolds Numbers” in the Journal of Xidian University, ISSN: 1001-2400, Volume 17, Issue 4, 2023.
9. BMSCE together with BMSCA and BMS College of law celebrated 132nd Birth Anniversary of Bharat Ratna Dr.Ambedkar on 28th April 2023 at 4 PM in Indoor Stadium, BMSCE. The event was organised and coordinated by the Department of Mathematics and Humanities, BMSCE. The Chief Guest for the event was Justice H N Nagamohan Das Former Judge, High Court Karnataka, It was presided by Dr. P.Dayananda Pai, Chairman, BMSCE and Life Trustee, BMSET.
10. Dr. Chidanand Badiger, Asst. Professor, Dept. of Mathematics, has published paper entitled : A kind of characterization of homeomorphism and homeomorphic spaces by Core fundamental groupoid: a good invariant, *Proyecciones journal of mathematics*, 42(2) (2023) 273-302 (An SCI Journal).
11. Dr. B.Mallikarjuna, Assistant Professor in mathematics, was invited to deliver a talk entitled “Spectral Methods for Boundary Value Problems” on International Webinar on Recent Advancement in Applications of Mathematics in Industries, organized by Department of Mathematics, AMET University, Chennai on 21st April 2023.
12. Mrs. Wilma Laveena D'Souza USN 1BM18PMA01 research scholar from Department of Mathematics completed her open seminar II under the guidance of Dr. Chaitra V on 26th April 2023.

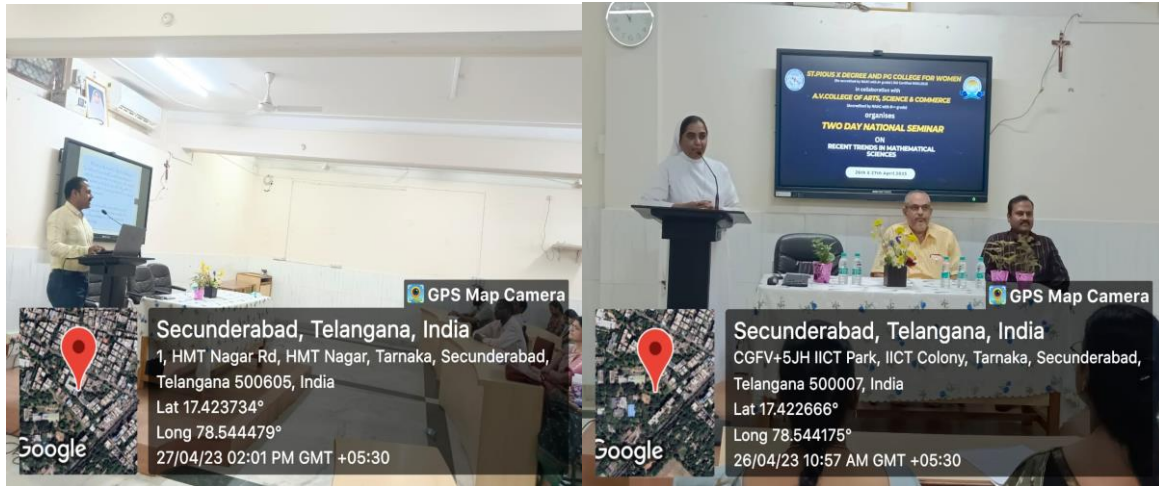


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13. Dr. B.Mallikarjuna, Assistant Professor in mathematics, was invited to deliver a talk entitled “Significance of Mathematics” and “Research methodology and writing a research paper” on 2 day National Seminar on Recent Trends in Mathematical Sciences, held on 26th and 27th April 2023, organized by Department of Mathematics, St. Pious X Degree and PG College for women, Hyderabad, Telangana.





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Activities in the month of May 2023

1. Department of Mathematics in collaboration with Department of Physics and Department of Chemistry Organised One day Workshop on “Intellectual Property Rights” on 3rd of May 2023.

The following are the faculty coordinators from the Department of Mathematics for the said programme:

Dr. P. Gomathi – Dept. of Mathematics

Dr. Sujatha N – Dept. of Mathematics

2. Dr. Meghana J has successfully participated in IP Awareness Training Programme under National Intellectual Property Awareness Mission on May 2023, Organised by Intellectual Property Office, India
3. Department of Mathematics organised one week Faculty Development Program on “Mathematical Foundation on Data Science” between 15th to 20th May 2023. Mr. Rahul R and Dr. Chandrashekara G were the coordinators for the above said programme.

The following faculties are attended the above said programme:

1. Dr. Sujatha N
2. Dr. Madhukar K
3. Dr. Meghana J
4. Dr. Hemanth Kumar C
5. Dr. Deepthee M R
6. Dr. Silvia L S
7. Dr. Vishalakshi T N



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4. Department of Mathematics in collaboration with Department of Physics and Department of Chemistry Organised One day Workshop on “Fire, Chemical and Bio-safety” on 23rd of May 2023. Dr. Veena Jawali , Professor and Head, was the Convener and Dr. Silvia L Sequira, Asst. Professor was the Faculty Coordinator for the above said programme.

5. Mrs. Sheeba N published a book titled “Intellectual Property Rights “ in May 2023..
ISSBN: 978-81-963677-1-8. DOI: 10.252.15/8196367716



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Activities in the month of June 2023

1. Teaching Learning Center, BMSCE organised a one week workshop on “Pedagogical Innovations” between 29th May to 2nd June 2023. Dr. Chaitra V, Asst. Professor from the Mathematics department was one of the coordinators for the above said workshop.
2. Induction program phase 2 was conducted for second semester students from 1st June to 7th June 2023. Dr. Chaitra V, Asst. Professor, Department of Mathematics was one of the coordinators for the above said program
3. Dr. Umesha V, Asst. Professor, Dept. of Mathematics, published a research article “LMI approach to asymptotic stability of linear systems with interval Time-Varying delays”, on 10th June 2023 Eur. Chem. Bull. 2023,12(7), 419-426.(Scopus). doi: 10.48047/ecb/2023.12.7.37.
Link:<https://www.eurchembull.com/uploads/paper/5a24fbd52f34239bace52a51a6946e4a.pdf>
4. Dr. Silvia L. Sequeira, and Dr. Anthony C. Melson, Asst. Professors Department of Mathematics attended the Scientific Communication for Researchers from 29th May to 2nd June 2023
5. Dr. Chaitra V, Asst. Professor, Dept. of Mathematics, published a research article “Inverse Double Roman Domination in graphs” in the Journal Discrete Mathematics, Algorithms and Applications, Volume: 15(6) 2023(September).
6. Dr. Madhukar K, Asst. Professor, Dept. of Mathematics, presented a paper “Preliminary Mathematical Study of Renderings of Mantrapushpam” in the 2nd International Conference on Recent Trends in Applied and Computational mathematics
7. Dr. Meghana J, Asst. Professor Dept. of Mathematics has participated five days Workshop on “Computational Mathematics using MATLAB /SCILAB and PYTHON” Organised by Department of Mathematics, CMR Institute of Technology Bengaluru from 12 June 2023 to 16th June 2023.