



# The Scientia

## Departmental Triumphs & Student Success Chronicle

News Bulletin of Department of Science of St. Clare College, Bengaluru

Volume - 1 | March 2024

### MESSAGE FROM HOD



It is with great pleasure and enthusiasm that I extend my warmest greetings to all of you through the pages of our bulletin. As the Head of the Science Department, it brings me immense joy to witness the culmination of our collective efforts in bringing forth this platform to celebrate the marvels of science. Science, as we know, is not merely a subject confined to textbooks and laboratories; it is a dynamic force that permeates every aspect of our lives. From the breathtaking expanse of the cosmos to the intricate complexities of the microscopic world, science serves as our guide, illuminating pathways to discovery and understanding. In this e-magazine, you will embark on a journey through the realms of computer science, statistics, mathematics, and beyond. Through engaging articles, captivating visuals, and thought-provoking insights, we aim to ignite your curiosity and spark a passion for exploration. Moreover, we are committed to promoting scientific literacy and fostering a culture of inquiry within our community. By sharing the latest advancements, debunking myths, and exploring the intersection of science and society, we hope to empower each one of you to become critical thinkers and informed decision-makers. I encourage you to dive into the pages of this bulletin with an open mind and a sense of wonder. Let us embark on this voyage of discovery together, embracing the wonders of science and the boundless possibilities it presents. Thank you for joining us on this exciting journey.

**Lt. Dr. Prakash Chandra Behera**

M.Sc.,MCA,PRCN,Ph. D.

HOD & Associate Professor

### FACULTY OF DEPT. OF SCIENCE



**Ms. Divya V. R.**

M. Sc., B. Ed., (Ph.D),(MBA)  
Assistant Professor



**Mr. Kagendra T.**

M. Sc., (Ph.D)  
Assistant Professor



**Ms. Geethu Varghese**

M. Sc., (Ph.D)  
Assistant Professor



# DEPARTMENTAL PROGRAMMES



*Department Council of the year 2023-24*

## Industrial Visit - KGTTI

On September 1st, 2023, students visited KGTTI, Bengaluru, exploring vocational training and real-world applications of science in natural energy resources. They engaged with representatives, gaining insights and understanding the vital role of skilled individuals in future technological growth. The visit inspired students to excel and contribute to technological advancement.



*Students on their way to KGTTI*

## Alumni Talk

On October 26th, 2023, an alumni talk focused on "Demystifying Data Analytics" prepared students for exams and explored post-UG career options. Alumni, Mr. Parthiev K.S. and Ms. Litty Adens, shared exam strategies and job prospects. Interactive discussions enriched understanding, fostering enthusiasm and empowering students for academic and professional success and facilitates holistic student development.



*Inauguration of the Alumni talk*

## SAMVIT-2023

The department collaborated with Lyceum of the Philippines University and CSI to host the one-day Virtual International Conference SAMVIT 2023 on November 8th. Themed 'Emerging Trends in Science and Technology,' it provided a platform for discussion and learning. Dr. Lilibeth Aragon, Dean of Lyceum, inaugurated the event. Forty-three presentations across three tracks were chaired by specialists.



*Faculty discussion for SAMVIT*



## Cyber Security and Artificial Intelligence Lab -Workshop

On December 12th, 2023, the Department of Science organized a workshop on Cyber Security and Artificial Intelligence Lab to train faculties on the NEP syllabus for Computer Science at Bangalore University. The event, inaugurated by Dr. Muralidhara B. L. and college authorities, featured sessions led by experts covering Cyber Security, Cyber Law, and AI, enhancing participants' teaching capabilities and proficiency.



*Inauguration of the Workshop*

## National Mathematics Day-Write-up Competition

On account of the National Mathematics Day celebrated after the birthday of the legendary Indian mathematician Srinivasa Ramanujan on Dec 22th every year, the Department of Sciences conducted a mathematical write -up competition on the topic “Applications of Mathematics in Real Life” on 12th January, 2024. This competition was open to all the B.Sc. students and around 15 students participated in the same and the best three write-ups were selected.



*Students engaged in the write-up competition*



*Students engaged in expert talk*

## Expert Talk

On January 23rd, 2024, our college hosted an expert talk by Dr. Gajendra Pratap Singh, focusing on applying mathematics in information technology. The session elucidated real-life applications, particularly in utilizing graphs and matrices. Attendees gained valuable insights into the integration of mathematical concepts in IT, fostering deeper understanding and bridging theoretical knowledge with practical applications, enriching student learning experiences.

## National Science Day -IISc Visit



*Students with the faculty at IISc Campus*

On February 24th, 2024, students visited IISc, Bangalore for National Science Day, immersing in various scientific disciplines. Guided by faculty, they explored Biology, Chemistry, Physics, and more, interacting with researchers and experiencing cutting-edge work. Combining academia with fun activities, the visit fostered curiosity, highlighted science's significance, and promoted scientific literacy and innovation, celebrating the spirit of inquiry.

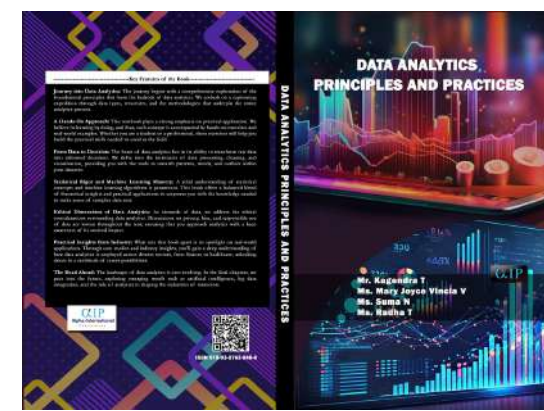


# Departmental Achievements

## Faculty Achievement

### Mr. Kagendra T

Mr. Kagendra T, co-author of "Data Analytics Principles and Practices," has made substantial contributions to data analytics education. The guide, crafted with Ms. Mary Joyce Vincia V and Ms. Suma N, covers key topics from data collection to advanced machine learning, offering practical insights. Additionally, Mr. Kagendra T's roles as a Board of Examination member for UG Statistics at Bangalore University (2023-2024) and REVA University, Bangalore (2022-2025) exemplify his commitment to academic excellence and shaping statistical education. His active involvement in examination processes underscores dedication, enhancing educational quality.



Mr. Kagendra T.



Ms. Suma N



Ms. Mary Joyce Vincia V

*The book authored by the faculty*

### Ms. Geethu Varghese

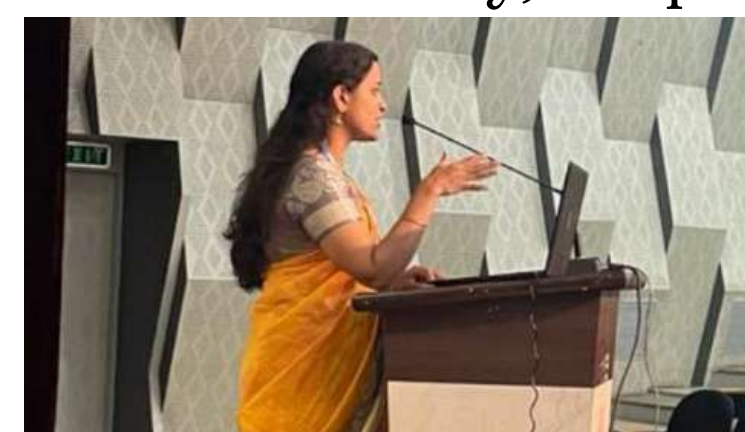


*Ms. Geethu addressing the students*

Ms. Geethu Varghese has been contributing immensely to the field of fuel cells (Green Energy) with the particular focus on mathematical modelling and performance optimization. She has authored /co-authored more than 9 research articles in international Scopus indexed Q1 journals. Recently her article titled "Sensitivity Analysis of Operational Parameters of High-Temperature Proton Exchange Membrane Fuel Cells," was published in the highly acclaimed "Journal of Electrochemical Society" (Scopus, Q1, Impact Factor:3.90). Her articles have garnered more than 60 citations on Google Scholar to date by researchers from countries like the U.S.A, China, Germany, etc. She is also been invited as a reviewer for one of Elsevier's top journals "Energy Conversion and Management" (Scopus, Q1, Impact Factor:10.4) based out of the UK, a rare feat.

### Ms. Divya V R

Ms. Divya V R has served on the Board of Studies for Undergraduate Statistics (2024-2027) and as Chairperson for the Board of Examination (2023-2024) which showcases her commitment and administrative prowess. Ms. Divya further demonstrated her expertise as a resource person for a guest lecture on "An Overview of Business Statistics" at Sri Aurobindo College and a Student Development Program at KLE Society's Degree College, Bangalore. Her research excellence was evident in the paper presentation, "The Impact of the COVID-19 Pandemic on Pre-adolescents & Adolescents Mental Health," at an international conference organized by Sri Venkateshwara University, Tirupati.



*Ms. Divya addressing the gathering*



## Academic Achievements

### Campus Drive

Our college conducted a Campus Drive on December 16th, 2023, featuring interviews for numerous students, including Ms. Sweta Bansod, Mr. Adarsh, and Yuvax Tipre, all from 3rd B.Sc. They secured positions at CODEYOUNG, an EdTech firm. This successful placement highlights the efficacy of our career guidance initiatives and the employability of our students in leading industry sectors.



*Ms. Zoolu working on her write-up*

### Mathematical Write-Up - Science Department

In celebration of National Mathematics Day, the Department of Science organized a mathematical write-up competition on "Applications of Mathematics in Real Life" on 12th January 2024. Open to B.Sc. students, around 15 participated, with Sangeetha R, Zoolu Tanwar, and Vaibhav M winning the top three prizes. The event aimed to promote mathematics' significance in addressing real-world challenges, fostering innovation and recognizing students' achievements.



Adharsh



Yuvax Tipre



Sweta Bansod

*The selected students in the Campus Drive*

### Bangalore University

On the occasion of National Mathematics Day, Bangalore University hosted a mathematics fest, wherein our students excelled and clinched the following accolades: Ms. Zoolu Tanwar from 2nd B.Sc attained the 1st prize for her Mathematical Write-up, Mr. Sridip Basu from 2nd B.Sc achieved the 1st prize in Chalk and Talk, and Ms. Zoolu Tanwar from 2nd B.Sc, along with Sridip Basu from 2nd B.Sc and Prashanth N from 1st B.Sc, secured the 2nd prize in the Mathematics Quiz.

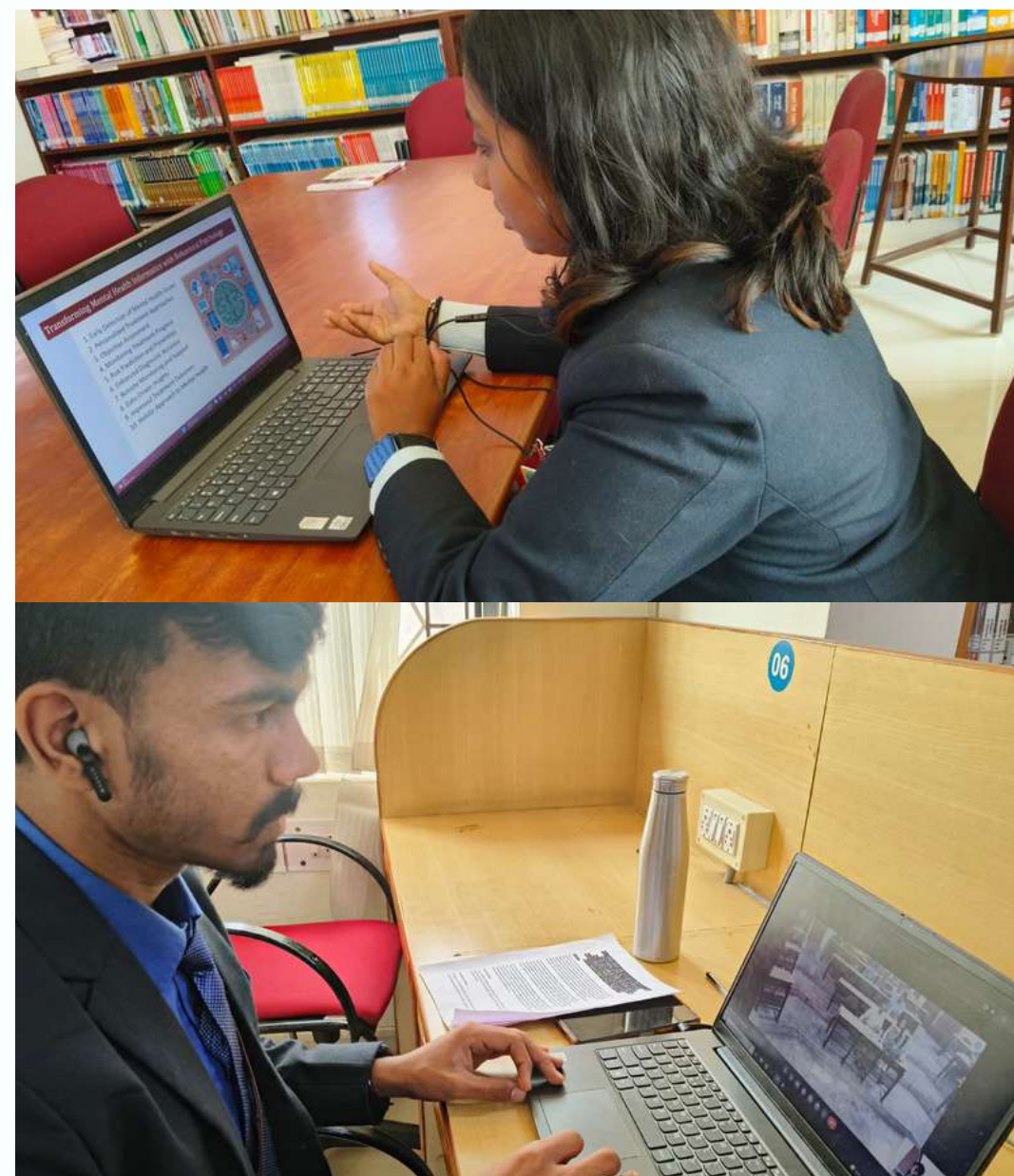


*Students actively participating in the competition*



## Rajagiri College

Rajagiri College of Social Sciences (Autonomous) and Rajagiri Business School, Kochi, held an International Conference on Multidisciplinary Approaches to SDGs & International Partners' Meet from January 10th to 13th, 2024. The event aimed at fostering global discussions on achieving Sustainable Development Goals (SDGs). Students Zoolu Tanwar, Srishti Biswas, and Prashanth N showcased research papers, highlighting the institution's dedication to academic excellence and student empowerment.



*Students working on presenting their papers*

## Cultural Achievements



*Mr. Kevin captivating the audience at an event*

## Bangalore University-Yuvabimba

Bangalore University's "Yuvabimba" 37th Southeast Zone Youth Festival occurred on February 25th at JSS Science and Technology University, Mysuru. Mr. Kevin Renold secured the 2nd prize in the instrumental solo competition and in group Western singing. He's selected to represent the university in the National University level competition which will be held on 26th March 2024, in Punjab.



*Ms. Joan engaged in the event at Jain University*

## Jain University-Nexus

Jain University - School of Sciences hosted a National-level Inter-Collegiate Cultural and Science Fest on January 23rd, 27th, and 29th, 2024. Ms. Vathsala L. and Ms. Shriya Giridhar won first place in "Samskruthi," showcasing knowledge of Indian culture. Ms. Joan Tressa Thomas secured second place in "Squid Games," testing critical thinking skills.





*Students at Christ College Campus*

### Kristu Jayanthi College-Prismatrix

Kristu Jayanthi College, Bengaluru's Department of Physical Sciences hosted a National-level Inter-Collegiate Festival on January 23rd, 2024. Ms. Pankaja KP, Mr. Tarun R (2nd B.Sc.), and Mr. Chethan V. (1st B.Sc.) participated in the "Statintra" event, centered on statistics, securing 2nd place. Their active involvement demonstrates their statistical acumen and the department's commitment to fostering academic excellence and participation in extracurricular activities.



*A snapshot of Ms. Shriya and Ms. Vathsala at the event*

### Christ College-Datamaze

The Department of Statistics and Data Science of Christ (Deemed to be University), Bengaluru, organized a National-level Inter-Collegiate Data Science and Statistics fest on January 24th, 2024. Participants including Joseph J, Sridip Basu, and Suresh S clinched 1st place in "Hero Trivia." Bhavesh L, Pankaja KP, and Tarun R secured 2nd place in "Bidwar." Zoolu Tanwar, Prashanth N, and Tarun R achieved 2nd place in "Jeopardy," showcasing their statistical prowess.



*Ms. Pankaja and Mr. Tarun at Kristu Jayanthi College*

### Mount Carmel College-Academica

Mount Carmel College, Autonomous, Bengaluru, hosted their annual academic festival, "Academica," on January 11th, 2024. In the event "Green Quest," a captivating game featuring a quiz and town building centered around sustainability, Ms. Shriya Giridhar and Ms. Vathsala L. from 2nd B.Sc. clinched the first place. Ms. Rahki Jha of 2nd B.Sc. earned the 1st prize for her Idea Presentation in "Sustainovation." Additionally, Ms. Zoolu Tanwar and Mr. Tarun R participated in "Tech Sigma," a decoding event, and secured the 3rd place.





*Ms. Urvi with the winners at St. Joseph's College*

## St. Joseph's College-Nakshatra

On January 25th, St. Joseph's College of Commerce organized Nakshatra 2024, facilitated by the Hindi department. Ms. Urvi Upare, a 1st-year B.Sc. student, earned the distinction of securing the 2nd prize in the Hindi Debate competition. Her achievement highlights the college's commitment to promoting linguistic and debating skills among students, fostering a culture of intellectual discourse and academic excellence within the institution.

## Sports Achievements

Bangalore University conducted university-level selections for Men's Rugby and American Football. Mr. Suhan N K and Mr. A Allen Mathew from 2nd B.Sc. were chosen for both events and participated in the All India University selections held at Chandigarh University, Punjab, on January 21st, 22nd, and 23rd, 2024. Additionally, Ms. Thirisha M from 2nd B.Sc. was selected for the National level Women's American Football team. Furthermore, Bangalore University organized university-level South-Zone selections for Kho-kho, where Dakshayani V from the first year was selected.



*Mr. Allen and Mr. Suhan with the team at Chandigarh University*

## Student Editors



**Mr. Bhavesh L**



**Ms. Joan Tressa Thomas**



**Ms. Pankaja K P**



**Mr. Suhan N K**



**Ms. Vathsala L**

## Faculty Editor



**Mr. Kagendra T.**