



A report on NATIONAL SCIENCE DAY 2024

Organized by Department of Sciences

(an IQAC initiative)

Theme: Indigenous Technologies for Viksit Bharat

On 22/02/2024, 26/02/2024 and 28/02/2024

National science day is commemorated on February 28th every year to honor the discovery of the Raman effect by sir C V Raman. This year, National Science Day was celebrated with a focus on the theme "Indigenous Technologies for Viksit Bharat," hosted by the Department of Sciences at M S Ramaiah College of Arts, Science, and Commerce as part of the DBT Star College scheme. The event saw the formation of several committees, with faculty coordinators and student volunteers playing integral roles in its successful execution. A total of 5 departments were involved- computer science, electronics, microbiology, biotechnology and genetics, chemistry, and biochemistry. Our college had a total of three events scheduled for National Science Day 2024.

Day 1: February 22,2024

Event: Outreach activity "Scifiesta- Explore the unseen"

Number of participants: 110

Venue: Kuvempu Seminar Hall

The inaugural event, held on February 22nd, 2024, was an outreach initiative titled "Scifiesta: Explore the Unseen," drawing participation from a total of 110 students representing six distinct schools from Bengaluru.

- IISC KV
- Shiksha sagar
- Srinidhi high school, mathikere
- Govt high school T Dasarahalli
- Yeshwantpur govt high school
- Ramaiah high school

The event started with the inauguration at Kuvempu seminar hall, where Dr H S Ganesha Bhatta, former director MES graced the occasion as the chief guest and gave a thought provoking, inspirational and motivational speech to all the school students. The school students were given plantable seed books and pencils as a token of love. Later the students were divided into batches of 20 each to visit our science laboratories, where they explored and visualized



various innovative experiments demonstrated by various science departments. Interactive displays were used to engage the students in scientific concepts.

The department of computer science conducted experiments revolving the real-world problems such as towers of Hanoi which explains the moving of n number of disks from source to destination, how to fill exact amount of water without measurement and how to place the ministers without attacking each other in a specific chess board.

Besides, the department of electronics conducted experiments like water level detector, smart street light system, light sensor circuit, touch sensor, password-based circuit braking system and automatic door bell. The students were delighted to witness these experiments but also gained hands-on experience by actively participating in them. Moreover, it encouraged curiosity and innovation, inspiring them to explore further avenues within the realms of computer science and electronics.

Further, the department of chemistry and biochemistry performed experiments such as Elephant toothpaste, Density experiment and fire ignition test, Chemical Garden, Golden rain, Newtonic fluid, Fake blood, Gun cotton nitrocellulose, Lava lamp, Flame test, Chemical chameleon, Fluorescence experiment, titrations experiment with turmeric as pH indicator, coloured precipitations, explanation of centrifuge, UV- visible and other equipment, blood grouping, respiratory system, enzyme activity, food adulteration, blood smear, iodine clock, elephant toothpaste, micropipette demonstration, pH testing and many more interesting demos from the mysterious world of chemistry. The students were not only curious but also eagerly anticipated experiencing the vibrant spectrum of chemistry and biochemistry. Witnessing captivating demonstrations, such as colorful chemical reactions and intricate biochemical processes, sparked their imagination and deepened their appreciation for the sciences.

Moving to the world of microbes and its applications, the students stepped into the department of microbiology. The Department of Microbiology organized a range of experiments, including simple staining, the hanging drop technique, fungal staining, wine preparation, the creation of permanent slides showcasing algae and protozoa and various microbes with their identification and mushroom cultivation. students participated in a range of engaging experiments and activities. From learning basic staining techniques to exploring practical applications like wine preparation and mushroom cultivation, they gained hands-on experience in the diverse field of microbiology. Additionally, examining permanent slides featuring various microorganisms enhanced their understanding of microbial diversity and classification.

The department of biotechnology and genetics had a walk-through science exhibition showcasing various models like green house, transgenic animals, types of viruses, global warming and many more followed by demonstration of experiments like isolation and extraction of DNA from various fruits and vegetables, loading of DNA on agarose gel



electrophoresis and visualization of DNA bands under UV transilluminator. Students also visualized microscopic views of various stages of mitosis using onion root tips.

Later after the visit the students were provided working lunch and feedback was collected from the students, where they enjoyed the whole event and appreciated the interactive science exhibits, finding them both informative and entertaining. The practical workshops were a highlight for students, providing an understanding of scientific principles. The visit served as a source of inspiration, motivating students to pursue careers in science and technology.

Day 2: February 26, 2024

Event: Intercollegiate Fest

Number of participants: 60

Venue: Abdul Kalam auditorium

The second event, was an intercollegiate fest with the theme of 'Science in Everyday life' and 'Indigenous technologies for Viksit Bharat' organized for all the UG and PG students from various colleges on 26th February, 2024. The various competitions shortlisted were: Face painting, Collage, Entrepreneurship and Photography held at Abdul Kalam auditorium. Students from various institutions in many numbers actively participated in all these events. Judges from various colleges evaluated these events, and prizes were awarded to the winners on the third day of the event on National Science Day ie on Feb 28, 2024 .

Day 3: February 28,2024

Event: Symposium- "Indigenous Technologies for Viksit Bharat"

Number of participants:175

Venue: DES Seminar Hall

The third event, that was organized by our college was the symposium on "Indigenous Technologies for Viksit Bharat" dated on National science Day 28th February, 2024 were three eminent scientists and academicians were invited as guest speakers to deliver their talk on the theme of Viksit Bharat. The chief guest of the symposium was Prof Omprakash Kharbanda, Pro-Vice Chancellor, Health Sciences at Ramaiah University of Applied Sciences and President of Ramaiah Memorial Hospital. Dr Arun M Isloor- Professor and former Head of the Department of Chemistry at National Institute of Technology and Dr. Dinesh Rangappa- Professor in Department of Applied Sciences in Nanotechnology at Vishweshwaraiah Technological University, Center for Post Graduate Studies were the eminent resource persons of the day. All the speakers emphasized on importance of developing science in the fields of Nanotechnology, Membrane technology and Medical sciences in Viksit Bharat. The symposium was a great learning experience for all the students and faculties.

In the last, all the winners of intercollegiate competitions held on 26th feb, 2024 were awarded with the certificate of appreciation and winner trophy. Besides, all participants were given the participation certificates as a token of appreciation.

Overall, the three-day celebration of National Science Day 2024 provided an enriching learning experience for both students and faculty members, serving as a valuable platform for exploration and discovery. Through a diverse range of events and activities, participants gained insights into emerging advancements in Viksit Bharat. The event served as a catalyst for intellectual growth and inspired a newfound appreciation for the boundless possibilities within the realm of science and technology.

Day 1: Glimpses of outreach activity- Scifiesta-Explore the unseen







Day 2: Glimpses of Intercollegiate Fest

Event: Collage and face painting

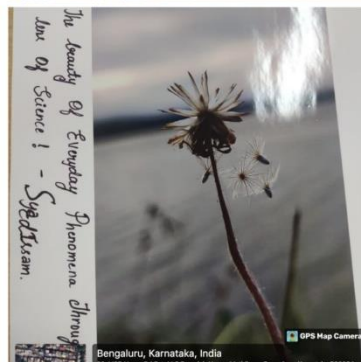


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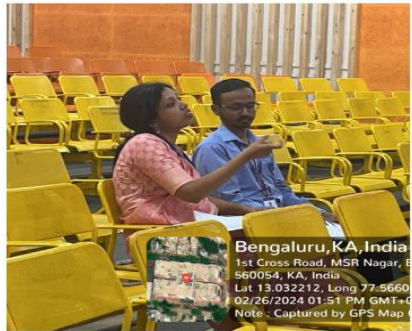
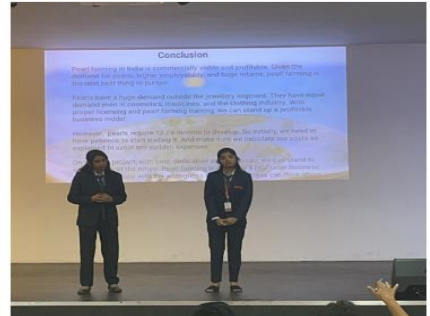


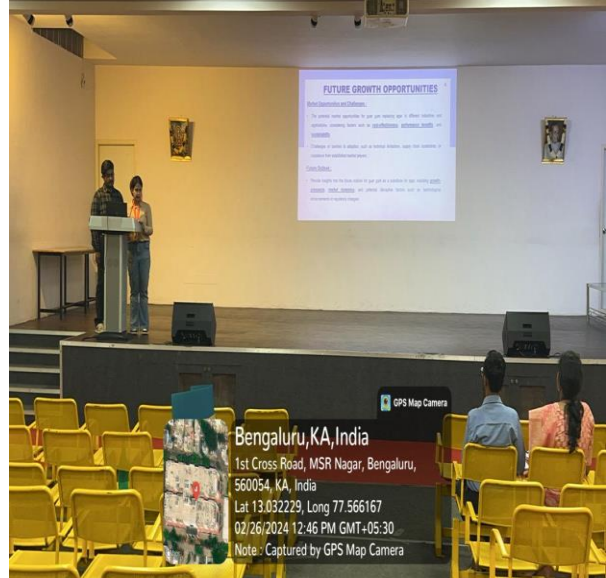


Event: Photography

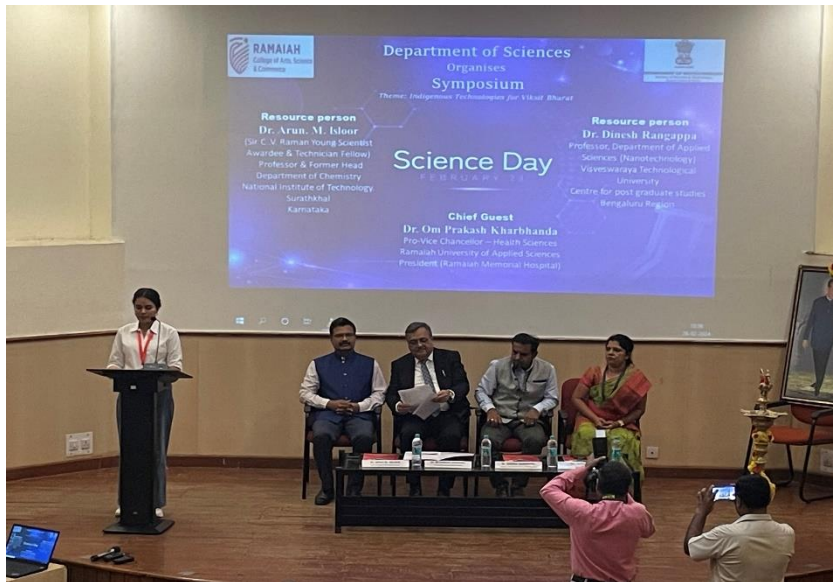


Event: Entrepreneurship





Day 3: Glimpses of Symposium









ORGANIZING COMMITTEE

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2. Dr. Geetika Pant
3. Dr. Sowbhagya R
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12. Ms. Nagalambika Swamy

All HODs and faculty member of all the Departments