

MICROBIOLOGY INSIGHTS

Volume:3

Issue: 1

January- March 2025

About the Department

The Department of Microbiology was established in 1999, offers a wide range of undergraduate and postgraduate courses, ensuring comprehensive education and research opportunities in this field. The department boasts a faculty of highly qualified experts who bring with them vast experience and expertise in various domains of Microbiology. Their commitment to teaching and research is reflected in their active involvement in cutting-edge research projects and their contributions to scientific publications and conferences. The department is equipped with state-of-the-art infrastructural facilities, including modern laboratories and research equipment, creating an ideal environment for teaching, experimentation, and innovation. Additionally, the department maintains strong collaborations with industry partners, providing students with valuable industry exposure and internship opportunities. The emphasis on research, professional development workshops, and a collaborative atmosphere nurtures the overall growth of students, preparing them for successful careers in academia, research, or the industry.



Objectives of the Department

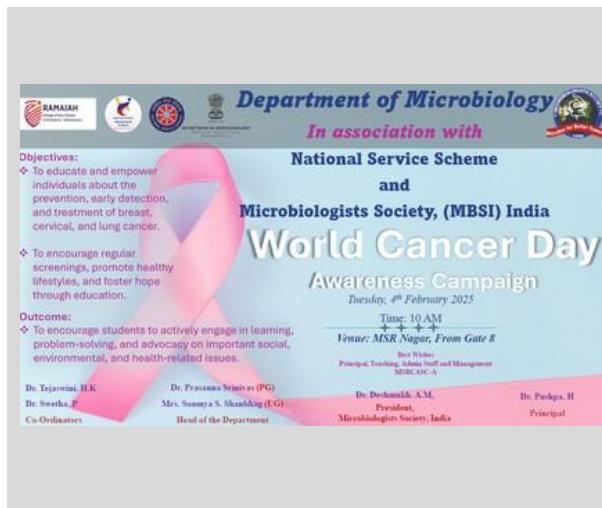
- To Provide Skill based Scientific and Technical Knowledge to Students
- To Train Students in the Field of Microbiology, Provide Value-based Education with Innovative Research
- To Undertake Research Activities Relevant to Present Day Needs

Activity Highlights

1. Cancer Awareness Program
2. VAP on Bioinformatics
3. Genius Galaxy
4. Metamorphosis-Transforming Ideas into Prototypes
5. National Science Day
6. Chethana- Creative workshop
7. Visit to IISc-Bengaluru

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Cancer Awareness Program

World Cancer Day is observed every year on February 4th to raise awareness about cancer and encourage prevention, detection, and treatment. Established by the Union for International Cancer Control (UICC) in 2000, the day aims to unite individuals, organizations, and governments to combat the global cancer burden. By spreading awareness and advocating for better policies, World Cancer Day plays a crucial role in the global fight against cancer, emphasizing that "Together, we can make a difference."

About the Event

Department of Microbiology, M S Ramaiah College of Arts, Science and Commerce-Autonomous, Bangalore in association with NSS and Microbiologists Society, India organized February 4th 2025. Students of BSc and MSc actively participated in the event and created awareness about Lung Cancer, Cervical Cancer, Breast Cancer and general cancer awareness. The activity was divided into two sessions Classroom Awareness Sessions and Shop-to-Shop Awareness Drive

Conclusion:

- The cancer awareness activity conducted by the BSc and MSc students was highly successful in spreading knowledge and encouraging proactive health measures. Such initiatives play a vital role in educating the community and promoting early detection.
- Further campaigns and collaborations with health professionals can enhance the reach and impact of these efforts.



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Department of Microbiology organizes
VALUE ADDED PROGRAM
BIOINFORMATICS

The activity aims to equip students with practical and theoretical knowledge that can enhance their expertise in the rapidly evolving field of bioinformatics.

Objectives:

- Understand the fundamentals of Bioinformatics
- Biological Data Analysis
- Develop computational skills
- Knowledge of databases

Resource Person: Dr. Venkata Vani
Date: 6th to 10th February 2025
8:30 am onwards

Coordinator: Mr. Anupam Bhagat
Watsapp: 9880519901

M S Ramiah College of Arts, Science and Commerce- Autonomous, Bangalore

VAP- Bioinformatics

UG department of Microbiology, MSRCASC-Autonomous organized 3 days Value Added Program on “Bioinformatics” from 6th to 11th February 2025. The value-added program on “Bioinformatics” serves as an introduction to bioinformatics, providing an overview of its significance in modern biological research.

About the Event

Participants are familiarized with the scope, objectives, and learning outcomes of the workshop. Hence this program equip students with practical and theoretical knowledge that can enhance their expertise in rapidly evolving field of bioinformatics.

Outcome:

- Understanding the fundamentals of bioinformatics, including genomics, proteomics, and structural biology.
- Hands-on experience with bioinformatics tools and databases like BLAST, NCBI, UniProt, and PDB.
- Familiarity with programming languages such as Python, R, or Perl for data analysis.
- Learning to analyze and interpret biological datasets.
- Ability to apply bioinformatics in research, such as drug discovery, personalized medicine, and microbiome studies.



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ABOUT US
Founded on the vision of Dr. M. S. Ramaiah, a pioneering institution of global standards. Founded in 1982, with the motto "Truth, Truth, Truth", to advance education and healthcare. Since 1998, Ramaiah College of Arts, Science and Commerce (RSRCAASC) has embodied this mission. Fostering a vibrant environment of learning and research, Ramaiah is an institution affiliated with Bangalore City University and approved by the NAAC with 'A' grade. The college offers a transformative education that prepares students for a dynamic future.

Ranked 100th in QS World University Rankings by Subject 2022, the college is recognized as one of the top 100 universities in India. It has received prestigious designations such as the DBT-STAR Centre for Research in Nanoscience and Technology and has established a Research Centre for Nanoscience and Technology. The college offers a robust array of undergraduate and postgraduate courses in various fields including Arts, Science, Commerce, and Management, serving over 2,000 students.

ABOUT NATIONAL SCIENCE DAY
National Science Day 2025 is celebrated every year on February 28th. On this day in 1958, Dr. C. V. Raman received a Nobel Prize in Physics for his research on the scattering of light. After two years, in 1960, he got the Padma Vibhushan for his work on the Raman effect and the Nobel Prize for India. National Science Day is celebrated to honor the contributions of Dr. C. V. Raman to the field of science and his fundamental phenomenon. Since, India declared the day as National Science Day, it is celebrated every year on February 28th.

The fundamental objective of the NSD is to propagate the message of science and technology and its importance to the people and to promote the spirit of curiosity, creativity and scientific temperament in the young generation of India.

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M S RAMAIAH COLLEGE OF ARTS, SCIENCE AND COMMERCE - AUTONOMOUS
Department of Sciences
ORGANIZES
GENIUS GALAXY
Celebration of
National Science Day 2025
Theme: "Science shaping tomorrow"
Date: February 28th, 2025
Venue: RSRCAASC, Bangalore

Genius Galaxy

Genius Galaxy was organized by M.S. Ramaiah College of Arts, Science, and Commerce - Autonomous on February 11, 2025, to commemorate National Science Day. The event aimed to inspire young minds, encourage scientific thinking, and promote scientific curiosity & curiosity among school students through various competitions and activities.

About the Event

The celebration saw enthusiastic participation from 7th to 9th standard students from various schools across Bangalore.

The schools participated were Navkis Educational Centre- Gokula, Orchids International School, Vidyashilp Academy, Trio World Academy, Mother Theresa Public School, Narayana E Techno School, Mathikere, Sri Vidya Mandir, Mathikere, Chrsalis High School, Arbindo Public School, KV Airforce Yelahanka, Sindhi High School, BBMP Government School, AC School, Sri Ranga Vidya Nikethan High School, NPS Yelahanka.

Genius Galaxy 2025 successfully ignited a passion for science among young learners. The event not only celebrated scientific advancements but also nurtured the next generation of innovators and critical thinkers. The overwhelming response ensures that such initiatives will continue to be a part of the college's annual activities in the future.



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Metamorphosis- Transforming Ideas into Prototypes

Department of Microbiology, MSRCASC organized a prototype designing competition, Metamorphosis-Transform your ideas into prototypes for the students of MSRCASC on 27th & 28th February 2025. This exciting event was organised for bridging the gap between theoretical knowledge and practical application to help shape the students better.

About the Event

The theme of the event was “Science Shaping Tomorrow.” This competition challenges participants to design and present functional prototypes that address real life problems or explore futuristic possibilities. Students gave their different insights and ideas to have a better and advanced future. Total of 7 teams from various streams participated and presented their prototypes in front of panel of judges.

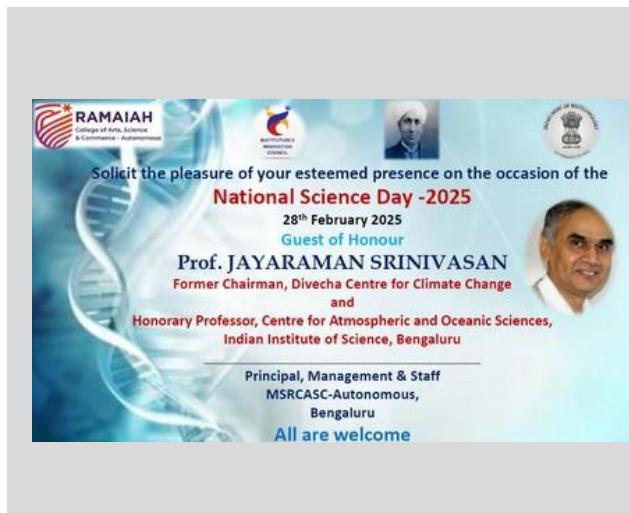
Conclusion

The "Metamorphosis" activity proved to be a valuable learning experience, fostering creativity, collaboration, and hands-on application of theoretical knowledge. Participants not only gained technical skills but also developed a mindset for continuous improvement and innovation.



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National Science Day

National Science Day is celebrated on February 28th every year in India to commemorate the discovery of the Raman Effect by Sir C.V. Raman in 1928. The day aims to promote scientific awareness, encourage innovation, and recognize the contributions of scientists to society.

About the Event

The National Science Day celebration was organized at MSRCASC, autonomous, Bengaluru.

Department of Sciences, MSRCASC organized a National Science Day on 28th February 2025. This exciting event was organised for bridging the gap between theoretical knowledge and practical application to help shape the students better. The theme of the event was “Science Shaping Tomorrow.”

Conclusion

The National Science Day celebration was a resounding success, fostering a culture of scientific inquiry and innovation among students. The event not only honoured past achievements but also ignited curiosity and motivation for future explorations in science and technology. It reinforced the significance of scientific progress in shaping a better world.



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Industrial Visit to IISc

On 1st March, 2025, the Department of Microbiology, MSRCASC, organized an outreach activity to the Indian Institute of Science (IISc) Open Day 2025. This initiative aimed to expose students to cutting-edge research in biological and chemical sciences, inspiring them to explore scientific advancements and career opportunities in research.

About the Event

During the visit, students explored various research labs, experiment stalls, and interactive exhibits in the domains of biological and chemical sciences.

Outcomes

- Enhanced understanding of real-world applications of microbiology, biotechnology, chemistry, and genetics.
- Increased awareness of research opportunities and career pathways in scientific fields.
- Inspiration to pursue higher education and research in leading institutions like IISc.
- Active participation in hands-on experiments, which strengthened their practical learning experience.



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Chethana-Creativity Workshop

The Microbiology Department of M S Ramaiah College of Arts, Science and Commerce-Autonomous organized Chethana, an educational outreach activity designed for school students from 4th to 7th standard on 4th March 2025. The event aimed to create awareness about microbiology through hands-on experiments, interactive demonstrations, and fun learning activities.

About the Event

The activities conducted for school children were,

1. Demonstration of Grams Staining,
2. Demonstration of Bacterial Motility,
3. Effect of disinfectants and importance of washing hands to the students.
4. Science quiz and
5. Science word puzzle

Conclusion

The Chethana microbiology activity was a highly interactive and educational event, sparking scientific curiosity in young students. Through hands-on experiments and engaging activities, students gained a practical understanding of microbiology, making learning an exciting experience.

