



Dr. M.G.R.

EDUCATIONAL AND RESEARCH INSTITUTE

(Deemed to be University with Special Autonomy Status)

Maduravoyal, Chennai - 600 095. Tamilnadu, India.

(An ISO 9001-2015 Certified Institution)



DEPARTMENT OF BIOTECHNOLOGY PRESENTS

BIOBYTES NEWSLETTER

BT 26 FEB 2024 - 01 JULY 2024

NEWS

H3 A
Newsletter
for the
Year 2024

BT





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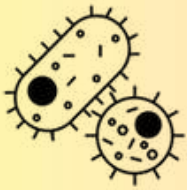


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DEPARTMENT VISION & MISSION



VISION

To strive towards the innovative knowledge in the domains of biotechnology for the development of new processes and product useful to the society and enrich economy.

MISSION



To impart knowledge and skills in the biological sciences to improve human health, protect environment and to enrich economy. To provide an outstanding environment to learn for facing the global need in the fields of Biotechnology. We focus on excellence in teaching and research as well as to promote entrepreneurship





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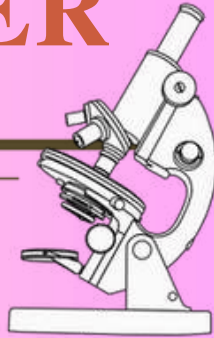
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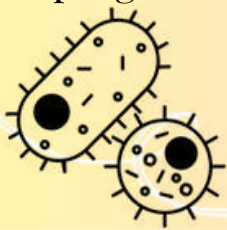


DESK MESSAGE



Dr. Rajeswary Hari
HOD of Biotechnology Department

The Department of Biotechnology was started in the year 2003 with an objective of generating trained manpower in Biotechnology with disciplinary skills from Chemical engineering, Computer Science and Management Skills. Biotechnology is the application of Biology for industrial purposes such as development of vaccines, biomaterials reducing toxic waste by using microbial or enzyme based processes, development of new drugs for treating emerging and reemerging diseases, development of newer diagnostic methods for diagnosis of human diseases, development of crops with additional productivity or added advantages etc. The Research focus in our Department Involves methods to reduce environmental pollution by using micro organisms, identifying the plant products which can be used to treat diabetes, fasten the wound healing processes; understanding the role of SNP in critical gene in the development of cancer; and monitoring and understanding the mechanisms of antibiotic resistance in bacteria. The Dept. is supported by grants from the SERB, DST, DBT & CSIR. The department is motivating the students and faculties to actively involve in research programme and also to publishish articles in national and international journals & Conference The Department offers B.Tech and M.Tech Programs in Biotechnology, M.Tech in Medical Biotechnology and Ph.D. programs also.



Rajeswary Hari
HOD Sign



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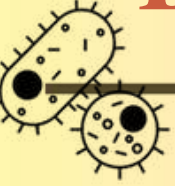
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ACHIEVERS



Congratulations to **Shivathmika, Priyanka, and Sedhukarasi** from the Biotechnology Department for their innovative AKC-funded project, AGIS SWARM CONNECT! This groundbreaking 24/7 satellite-based monitoring system, utilizing MQDT technology, aims to detect and prevent illegal fishing activities. Their dedication to addressing critical environmental issues through advanced technology is truly commendable. Wishing them great success in further developing this impactful project!



Congratulations to **Kuduma Meghana and Sai Sri G. K.** for securing the top rank in the even semester-IV with an outstanding GPA of 9.52! This remarkable achievement reflects their hard work, dedication, and academic excellence. Wishing them continued success in their future endeavors!



Congratulations to **Thrisha M.** for securing the top rank in the even semester-VI with an exceptional GPA of 9.82! This remarkable achievement is a testament to her dedication, hard work, and academic excellence!



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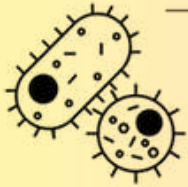
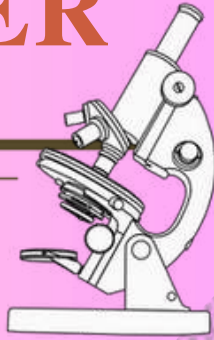
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STUDENT CORNER

Congratulations to **Sai Sri G. K.** for winning the second prize for her creative presentation on improving soil health through an innovative solution to an industry-defined problem! Her innovative thinking and dedication to addressing critical environmental challenges are truly commendable. Wishing her continued success in all her future endeavors!



Congratulations to **Nishtah Rawat** from B.Tech Biotechnology for her outstanding achievement in securing the top rank in Viksit Bharat@2047! Her active participation in both non-technical and technical events showcases her versatility, dedication, and commitment to excellence!





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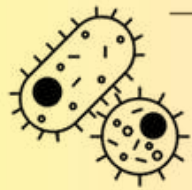
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EVENT CORNER



“SARVASASTRA 2k24”

On the inaugural day of **SARVASASTRA 2k24** on 14th and 15th March, we were honored to have Dr.

Thangam Menon, a renowned microbiologist, deliver the keynote address. She highlighted the critical role of the microbiome in human health, offering valuable insights.

During the afternoon session, participants showcased their research findings and innovative ideas, contributing to a dynamic exchange of knowledge and ideas.





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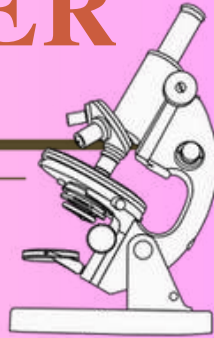
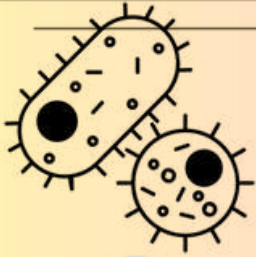
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ALUMINI

Department of Biotechnology
organizes
ALUMNI INTERACTION SERIES XII
BEYOND BIOTECHNOLOGY



V Bharathi Chellamma
Scientist,
Bioassay Development Lab,
Biocon Limited.

"Beyond Biotechnology"

On 18th June 2024, as part of the "Beyond Biotechnology" session, we had the privilege of hosting Ms. Bharathi Chellamma, a distinguished alumna from Biocon, at the Bioinformatics Lab. She shared her valuable insights on emerging trends in biotechnology and inspired students to pursue careers in this dynamic field. Her address was both motivating and enriching for all in attendance.



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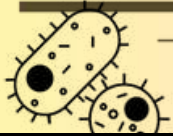
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STAR OF H₃ (STUDENT)

Congratulations to **Tejaswari A and Amrith G. R.** for their outstanding achievement in securing the first rank for their paper presentation on "Media Formation" at Sarvasastra 2K24! Their hard work, creativity, and excellence in research are truly commendable. !



Congratulations to **Sai Sri G. K.** for securing the second rank in her paper presentation on "Marine Biotechnology" at Sarvasastra 2K24! Her exceptional research and presentation skills are truly commendable!



STAR OF H₃ (STAFF)

Congratulations to **Dr. K. Gomathi**, assistant HOD of the Department of Biotechnology, for having her innovative idea selected and approved by MSME in Women Hackathon 3.0! Out of 23 ideas, hers was one of the top two chosen, with a project budget of Rs 14.5 lakhs. This achievement is a testament to her creativity, leadership, and dedication to advancing biotechnology. Wishing her continued success in bringing this impactful project to fruition!



Dr. K. Gomathi





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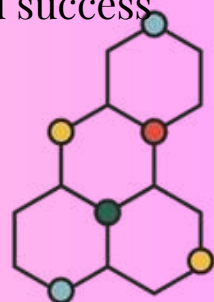
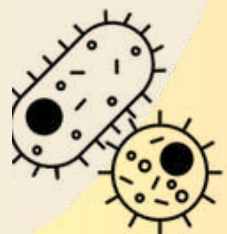
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RESEARCH & INNOVATIONS



Congratulations to **Shanmugapriya D.**, a final-year B.Tech Biotechnology student, for her remarkable achievement in publishing a review article on Polycystic Ovary Syndrome (PCOS) in the prestigious *Elsevier Journal "Life Sciences." This insightful article, guided by Dr. Thirunavkarasu Palaniyandi, explores the complexities of PCOS, shedding light on its significant impact on women's health. It also highlights recent advancements in research and treatment, emphasizing the need for point-of-care technologies to enhance the diagnosis and management of this challenging disorder. With an impact factor of 5.2 and a total of 17 reads, Shanmugapriya's work makes a valuable contribution to the growing body of knowledge on PCOS and its potential solutions. This accomplishment reflects her dedication, deep understanding of the subject, and commitment to advancing healthcare solutions. Wishing her continued success in her future academic and professional endeavors!





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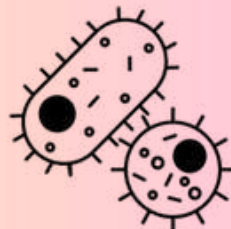
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