



Dr. M.G.R.
Educational and Research Institute



DEEMED TO BE UNIVERSITY

(An ISO 21001: 2018 Certified Institution) (University with Graded Autonomous Status)

Poonamallee High Rd, Vishwas Nagar, Maduravoyal, Chennai, Tamil Nadu 600095

DEPARTMENT OF BIOTECHNOLOGY

PRESENTS
BIOBYTES NEWSLETTER
JAN 2025 - MAR 2025

NEWS

Q1

**A Newsletter
for the Year
2025**

BT





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DEPARTMENT OF BIOTECHNOLOGY

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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 .





DEPARTMENT OF BIOTECHNOLOGY

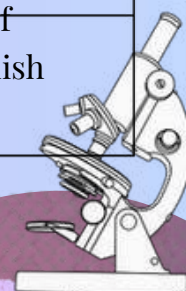
Program Educational Objectives of the Department

PROGRAM EDUCATIONAL OBJECTIVES STATEMENTS (PEOs)

PEO No.	PROGRAM EDUCATIONAL OBJECTIVES STATEMENTS
PEO 1	Pursue higher studies or involve themselves in R&D activities in Biotechnology Industries and related organizations
PEO 2	Be a successful entrepreneur in creating jobs related to health science and Biomedical Society.
PEO 3	Promote ethics, sustainability, social environmental responsibility in their profession and career.

LIST OF PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO No.	LIST OF PROGRAM SPECIFIC OUTCOMES (PSOs)
PSO 1	Ability to apply knowledge of basic life sciences for Biotechnological innovation and promoting entrepreneurship
PSO 2	Proficiency to develop value-added Biotechnological products through implementation, design, optimization, and scale-up of Biotechnological processes.
PSO 3	Competency to promote Biotechnological research in the fields of biomedical, food and environment-related fields and also to publish papers in highly reputed journals.





DEPARTMENT OF BIOTECHNOLOGY

Program Educational Objectives of the Department

PROGRAM OUTCOMES (PO)

PO1

Engineering Knowledge: Apply the Knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2 Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching, substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental consideration.

PO4 Conduct investigations of complex problems: Use research based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5 Modern tool usage: Create, select and apply appropriate techniques, resources and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to access societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts and demonstrate the knowledge of and need for sustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual and as member or leader in diverse teams and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large such as being able to comprehend and write effective reports and design documentation, make effective presentations and give and receive clear instructions.

PO11 Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work as a member and leader in a team to manage projects and multidisciplinary environments.

PO12 Life-long learning: Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.



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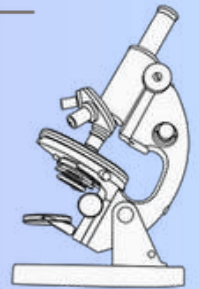
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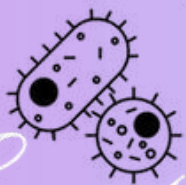
DESK MESSAGE

Dr. Gomathi K

HOD of Biotechnology Department



This edition of our department newsletter is a great way for me to get to know you. Our department is dedicated to remaining at the forefront of innovation, research, and academic excellence as biotechnology continues to advance at a rapid rate. Our students and teachers have been actively involved in a variety of academic, technical, and extracurricular activities during the previous semester. Our department's accomplishments demonstrate the talent and commitment that make us unique, from winning awards in intercollegiate competitions to presenting research papers at reputable conferences. We take special pride in the efforts made to close the gap between theory and practice through cooperative projects, skill development workshops, and experiential learning. Through their contributions to academia, research, and industry worldwide, our alumni also continue to inspire us. A celebration of our progress and spirit as a group, this newsletter highlights some of those achievements, turning points, and memories. I urge every student to continue to be inquisitive, involved, and proactive in directing their academic path. Let's keep up the principles of integrity, innovation, and scientific investigation.



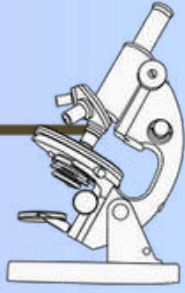
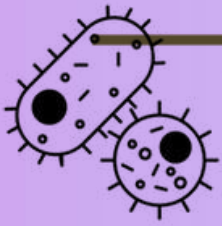
Gomathi K
(Dr. Gomathi K)

HOD SIGN



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ACHIEVERS

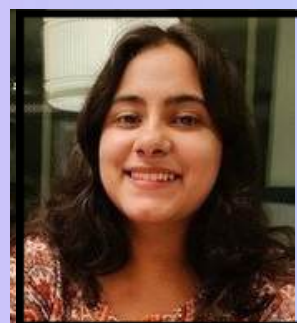


A round of applause to **Swetha, Priyanka, Sethukarasi, Mahalakshmi, Nakshatra, and Praharshidhalatha** for dancing their way to **2nd prize in the Women's Day celebration!** Your rhythm, energy, and grace lit up the stage — a performance as powerful as the day itself!



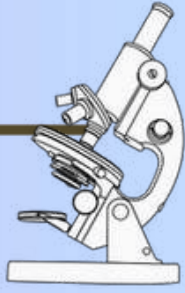
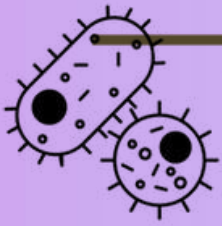
Kudos to **Nishtha Rawat** for clinching **1st prize in the Industry Defined Problems challenge!** Your sharp thinking and solution-driven approach truly stood out — a brilliant stride toward real-world innovation!

Congratulations to **Hitarthi Sharma** for securing **2nd prize in the Industry Defined Problems challenge!** Your practical insights and innovative mindset truly made an impact — a commendable achievement on the path to industry excellence!





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STUDENT CORNER

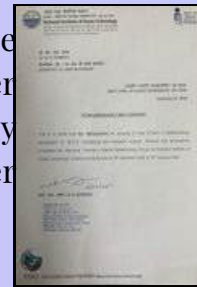
Congratulations to **Mayuri A, Janani B. L, Pradeepaa L. S, Tamilselvi S, Abirami K, Shobita R. K, and Ramadharshini C** for securing an international internship at **Universiti Malaysia Terengganu, Malaysia**. A proud global leap in your biotech journey!



Kudos to **Mr. Nitish Kumar M.** for successfully completing his internship at **ICMR-NIRT, Chennai**. His commitment to TB research and diagnostics is truly commendable. Wishing him continued success ahead!



Mahalakshmi successfully completed her internship in the **Marine Biotechnology Group at NIOT, Chennai**. Her dedication to ocean science and biotechnology is truly inspiring. Proud moment for the department! Wishing her continued success in her scientific journey!



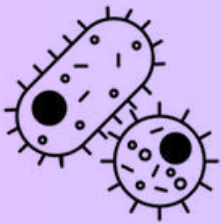
Sheik Sumaer participated in the **CHECKMATE – District Rotaract Conference 2024–25** at **Patrician College, Adyar**. Kudos for being an active part of youth leadership!

M. Thoufiq Ayubkhan completed training in **Nano Technology & Genetic Engineering at Corizo**. Applause for his dedication and innovation in the biotech field!

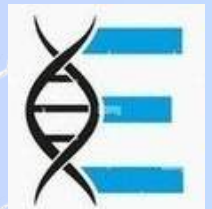




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EVENT CORNER NATIONAL SCIENCE DAY



National Science Day 2K25 – Science with a Sustainable Spark!

National Science Day 2K25 was a two-day celebration of eco-innovation and student creativity! Day 1 featured inspiring talks by Dr. K. Gomathi, Dr. V. Cyril Raj, Dr. N. Ethiraj, and Chief Guest Dr. Gunanadha Selvam, urging students to embrace green research. The spotlight shone on vibrant events like: Ink Wars – Creative science writing. Model Masterclass – Innovative eco-models, Act Attack – Science meets stage drama. Day 2 stole the show with Recycle Runway – a stunning fashion walk where Biotech students rocked outfits made from waste, proving sustainability can be stylish! The event wrapped up with cheers, awards, and a warm vote of thanks by Ms. Sindhu, marking a powerful celebration of science with purpose. Green minds, bold moves.





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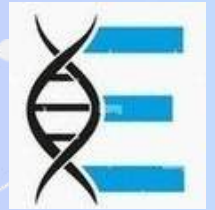
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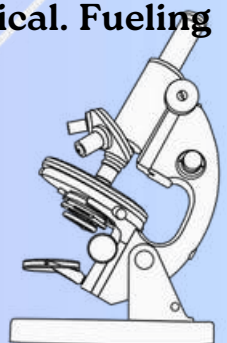
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EVENT CORNER

ASSOCIATION DAY



Association Day 2025 – A Power-Packed Celebration of Innovation! The Department of Biotechnology turned the RA Auditorium into a buzzing space of creativity, achievement, and pure energy! The spotlight shone bright on the launch of three exciting student clubs The Invincibles – Where dance, music & arts come alive The BioExplorer – A launchpad for tech events, debates & innovation Genexus – Your gateway to internships, workshops & beyond The event also honored brilliant researchers and patent achievers, while a power-packed guest talk sparked curiosity with the latest biotech trends. With vibrant vibes, interactive sessions, and tasty treats, Association Day 2025 wasn't just memorable – it was magical. Fueling passion. Celebrating progress. That's the Biotech way!





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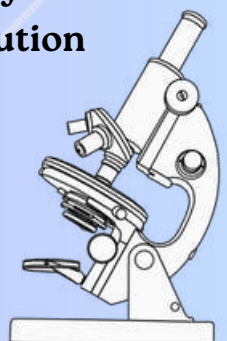


EVENT CORNER A NATIONAL LEVEL CONFERENCE BIORHYTHM



Biorhythm 2K25 – Biotech at Full Blast!

Biorhythm 2K25 turned the campus into a powerhouse of innovation, inspiration, and incredible energy! With electrifying sessions by Dr. N.V. Vinith Kumar, Dr. N. Veera Subhashini, and our dynamic alumna Dr. Nibedita Dey, students got a front-row seat to the future of biotech careers and research breakthroughs. From tech battles to creative showdowns, the event brought together brainpower and passion, creating a space where ideas sparked, collaborations formed, and talents truly shined. Biorhythm 2K25 wasn't just an event - it was a biotech revolution in motion!





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STAR OF Q1 (STUDENT)

Kudos to Saisri G K, 3rd year B.Tech Biotechnology, for brewing brilliance and bagging the 2nd prize along with a cash award in the paper presentation on “Floral Fusion Health Drink”! Your innovative spark and scientific flair truly bloomed on stage — a proud and flavourful moment for us all!



STAR OF Q2 (STAFF)



Heartfelt congratulations to **Dr. K. Gomathi** on becoming **Head of the Biotechnology Department**. We're proud of your inspiring leadership and dedication! Your achievement inspires us all to strive for excellence. Under your guidance, we are confident the department will reach new milestones and continue to flourish. Wishing you great success in this well-deserved role!

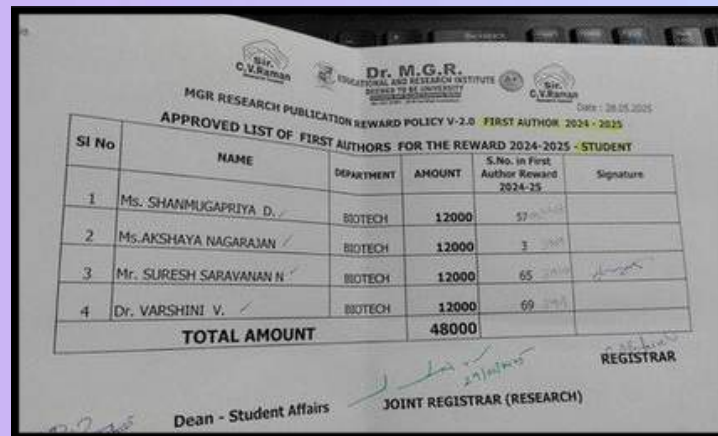
Congratulations to **Dr. M. Sridevi** on her promotion as **Deputy Head of the Biotechnology Department!** Your commitment, expertise, and supportive nature make you an invaluable leader. We are proud to have you steering our team alongside and look forward to the positive impact you will continue to bring. Wishing you success and fulfillment in this new role!





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RESEARCH & INNOVATIONS



MGR RESEARCH PUBLICATION REWARD POLICY V-2.0 FIRST AUTHOR 2024-2025

APPROVED LIST OF FIRST AUTHORS FOR THE REWARD 2024-2025 - STUDENT

Sl No	NAME	DEPARTMENT	AMOUNT	S.No. in First Author Reward 2024-25	Signature
1	Ms. SHANMUGAPRIYA D.	BIOTECH	12000	57	
2	Ms. AKSHAYA NAGARAJAN	BIOTECH	12000	3	
3	Mr. SURESH SARAVANAN N	BIOTECH	12000	65	
4	Dr. VARSHINI V.	BIOTECH	12000	69	
TOTAL AMOUNT			48000		

Dean - Student Affairs
JOINT REGISTRAR (RESEARCH)
REGISTRAR

Biotech Brilliance Unleashed!

First Author Edition - MGR Research Publication Reward (2024-2025)

The Department of Biotechnology proudly celebrates four outstanding students who have achieved excellence in research! Honored under the MGR Research Publication Reward Policy V-2.0, they have been recognized as First Authors for their impactful contributions to scientific literature. Applauding our shining stars: Ms. Shanmugapriya D - Scripting science with passion Ms. Akshaya Nagarajan - Turning ideas into impactful insights Mr. Suresh Saravanan N - Fueling biotech dreams, one publication at a time Dr. Varshini V - Leading with logic, driven by discovery Their dedication, intellect, and curiosity continue to raise the bar for research excellence. They've not only contributed to science but also inspired a culture of innovation within our academic community. Here's to fearless minds and the future of biotechnology!



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THE SUN

CREATIVE CORNER

THE LAST

A fiery sphere, radiating light across the
cosmos.
Staying too close invites destruction,
Yet orbiting at the right distance brings life.
It nurtures and protects,
Yet is often blamed—
Scorned for its searing heat,
Mourned in its absence.
Burning with an intensity few can fathom,
It endures, unshaken by praise or blame.
A star that could have merely glistened,
Yet chose to blaze—
Sacrificing itself to illuminate others.
Majestic in its constancy, A silent reminder
That even in the fiercest of fires, there lies
purpose.
And in the end,
We all have a choice.

- SAISRI G K

3RD YEAR , DEPT. OF BIOTECHNOLOGY



Losing the race, making mistakes, moving at your
own pace.
Pausing, stepping back, feeling out of sync with
the world.
Yet, beginning anew, learning from the past,
pushing forward.
First or last—does it truly mater?
What defines you is not the fall, but the strength
to rise again.

- SAISRI G K

3RD YEAR , DEPT. OF BIOTECHNOLOGY



-SREEPOOJA PARTHASARATHY
3RD YEAR,
DEPT. OF BIOTECHNOLOGY

-N SRIMATHI
3RD YEAR,
DEPT. OF BIOTECHNOLOGY



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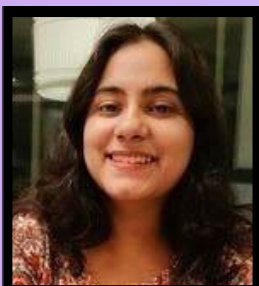
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