



DTE Code: 4151

TULSIRAMJI GAIKWAD-PATIL
College of Engineering & Technology

—AN AUTONOMOUS INSTITUTE—

www.tgpcet.com



GAIKWAD-PATIL
GROUP OF INSTITUTIONS

BIONEXUS

NEWSLETTER

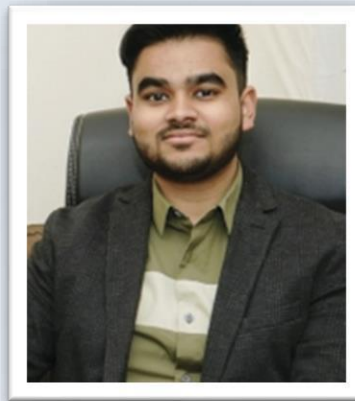
ODD SEM 25 - 26
ISSUE : 1 | VOLUME : 3

MANAGEMENT INSIGHTS



Dr. Mohan Gaikwad Patil
Chairman, GPG

Biotechnology stands at the forefront of innovation, transforming lives through science. We are committed to nurturing talent and fostering research that addresses real-world challenges. Let us strive for excellence and integrity in every experiment and endeavor. Together, we can shape a healthier, more sustainable future.



Mr. Akash Gaikwad Patil
Vice Chairman, GPG

In the era of precision and innovation, biotechnology empowers solutions to global problems. Our institute supports inquisitive minds and ethical research. With dedication and curiosity, let's unlock nature's secrets responsibly. We believe in your potential to make a meaningful impact.



Dr. Anjali Patil Gaikwad
President, GPGI

Biotechnology merges biology and technology to revolutionize healthcare, agriculture, and the environment. At our institution, we encourage curiosity, critical thinking, and collaboration. Pursue your scientific journey with passion and purpose. We are proud to support your aspirations and discoveries.



Dr. Sandeep Gaikwad Patil
Treasurer, GPGI

Biotechnology is more than a discipline—it is a mission to improve life. We applaud your pursuit of knowledge and encourage a spirit of discovery. With strong values and visionary thinking, we can achieve great things. Management wishes you success in all your academic endeavors.

ACADEMIC PATRONS



Dr. P. L. Naktode
Principal

In today's rapidly evolving world, biotechnology stands at the forefront of innovation, offering sustainable solutions to some of the most pressing challenges in healthcare, agriculture, and the environment. Our Department of Biotechnology has consistently demonstrated academic excellence, research innovation, and industry collaboration. The commitment of our faculty to quality education and the enthusiasm of our students towards learning and discovery are truly commendable.



Dr. Pragati Patil
Director
Administration

The Department of Biotechnology has consistently demonstrated excellence in both academics and research. Our faculty members are committed to nurturing innovative thinking and scientific curiosity in students, equipping them to meet the challenges of the 21st century in healthcare, agriculture, environmental sustainability, and industrial biotechnology. With a strong focus on interdisciplinary learning, industry interaction, and hands-on training, the department offers students a well-rounded education that bridges theory and practice.

Message from HOD Desk



Prof. Anuradha Khade
HOD Biotechnology

It gives me immense pleasure to present this edition of the Department of Biotechnology Newsletter, which reflects the academic vibrancy, innovative spirit, and collective efforts of our students and faculty members. Biotechnology is a rapidly evolving field that bridges life sciences with engineering and technology. Our department continuously strives to provide a strong foundation in core biological concepts while fostering analytical thinking, research aptitude, and industry-oriented skills among students. Through workshops, guest lectures, industrial visits, seminars, and hands-on training programs, we aim to prepare our students to meet global challenges in healthcare, agriculture, environmental sustainability, and biopharmaceutical industries. This newsletter showcases the academic achievements, co-curricular activities, expert interactions, and student accomplishments that highlight our commitment to excellence. I appreciate the enthusiasm and dedication of our students in actively participating in various academic and professional development activities, and I commend the faculty for their constant guidance and mentorship.

I extend my best wishes to all students for their continued success and encourage them to remain curious, innovative, and socially responsible professionals. I also congratulate the editorial team for their sincere efforts in bringing out this informative and engaging newsletter.

Message from the Editorial Desk



Ms. Oshin Solanke
Chief Editor BT
Department of Biotechnology

Dear Readers,

It is with great enthusiasm that we present the latest edition of the Department of Biotechnology's Newsletter. This issue reflects the spirit of scientific inquiry, innovation, and academic excellence that forms the foundation of our department. As biotechnology continues to advance and transform multiple sectors, it becomes essential to nurture curiosity and encourage knowledge sharing among emerging professionals. This magazine brings together a diverse collection of articles, research insights, reviews, and student perspectives that highlight the dynamic work carried out by our students and faculty members. The contributions showcase not only technical competence but also creativity and critical thinking, addressing contemporary challenges in healthcare, agriculture, industry, and environmental sustainability. Along with technical content, this edition features highlights of departmental activities, emerging trends in biotechnology, and thought-provoking viewpoints. We hope this publication serves as a platform for learning, collaboration, and inspiration for aspiring biotechnologists. We sincerely acknowledge the efforts of all contributors and the editorial team for their dedication in making this publication a success. We also extend our gratitude to our readers for their continued interest and support.

Message from the Student Editorial Desk



Mr. Pratham Bhandula
Student Chief Editor
Department of Biotechnology

We are excited to bring you this edition of the Department of Biotechnology's technical magazine, a student-driven initiative that reflects our curiosity, creativity, and passion for biotechnology. This magazine serves as a platform where ideas, innovation, and learning come together beyond textbooks and classrooms. The articles featured in this issue highlight student perspectives, emerging trends, and advancements in biotechnology that address real-world challenges. Each contribution showcases the enthusiasm and scientific spirit of our peers. We sincerely thank our Head of the Department and faculty members for their constant support and guidance. We also appreciate the efforts of all student contributors and hope this magazine inspires readers to explore, innovate, and grow as future biotechnologists.

Student Editorial Team
Department of Biotechnology

INDEX

Sr. No.	Contents	Page No.
1	Vision & Mission of Institute	1
2	Vision & Mission of Department	2
3	Program Specific Outcomes (PSO)	2
4	Program Outcomes (PO)	3
5	About Biotechnology	4
6	Faculty Details	5
7	Industrial Visit	6-12
8	Guest Lecture /Workshop	13-21
9	Events	22-26
10	Student Participation & Achievements	27-32
11	Departmental Social Media	33

Vision

To emerge as a learning Center of Excellence in the National Ethos in domains of Science, Technology, and Management.

Mission

- To strive for rearing standard and stature of the students by practicing high standards of professional ethics, transparency and accountability.
- To provide facilities and services to meet the challenges of Industry and Society.
- To facilitate socially responsive research, innovation and entrepreneurship.
- To ascertain holistic development of the students and staff members by inculcating knowledge and profession as work practices.

Vision of the Department

To produce competent Scientists, Technologists, Entrepreneurs and Researchers in Biotechnology through quality education.

Mission of the Department

- Impart quality technical education and unique interdisciplinary experiences
- Undertake interdisciplinary research merging science and technology
- Shape biotechnological development under an ethical vision
- Inculcate professional responsibility based on social responsibilities.

Program Specific Outcomes

Graduates will be able to

PSO 1: Ability to apply the acquired knowledge and recent techniques to come up with ideas in the domains of Bioprocess Engineering, Bioinformatics and Biopharmaceuticals.

PSO 2: Ability to utilize their proficiency and skills in solving real life problems in Diagnostics Genetic Engineering and Fermentation Technology using recent technologies.

PSO 3: Analyzing the impact of Biotechnology Engineering solutions in the societal and human context to create productive human resource for the country.

Program Outcomes

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

2. 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.

3. 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 considerations.

4. 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.

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

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

7. 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.

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

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

10. 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.

11. 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 in multidisciplinary environments.

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

About Biotechnology

Biotechnology is one of the fastest-growing fields worldwide, offering vast opportunities driven by advancements in genomics, bioinformatics, artificial intelligence, and personalized medicine. With increasing global focus on healthcare innovation, sustainable agriculture, environmental protection, and industrial bioprocessing, the demand for skilled biotechnology professionals is expected to rise significantly in the coming years. The future of biotechnology lies in emerging areas such as gene therapy, synthetic biology, stem cell research, vaccine development, biosimilars, precision agriculture, and biopharmaceutical manufacturing. Technologies like CRISPR-Cas gene editing, omics sciences, and computational biology are transforming research and industry practices, opening new career paths for graduates. Career opportunities for biotechnology students span across research and development, quality control and assurance, regulatory affairs, clinical research, bioinformatics, production, and technical sales. Graduates can find employment in biopharmaceutical companies, research institutes, hospitals, agricultural firms, food and dairy industries, environmental organizations, and start-ups. Higher studies, entrepreneurship, and interdisciplinary roles further expand career prospects. With strong scientific foundations and practical skills, biotechnology professionals have the potential to contribute to global health, sustainable development, and technological innovation, making it a rewarding and future-oriented career choice.

Faculty Details

Department of Biotechnology

Sr. No.	Faculty Name	Qualification
1.	Dr. Rohit Kalnake	Ph.D. (Chemical Engineering)
2.	Prof. Anuradha Khade	M.Sc. (Biotechnology)
3.	Prof. Pundlik Sorte	M.Sc. (Microbiology)
4.	Prof. Prajkta Arjapure	M.Sc. (Biotechnology)
5.	Prof. Mayur Dange	M.Tech. (Computational Biology)
6.	Prof. Manas Mandaogade	M.Sc. (Biotechnology)
7.	Prof. Nandini Marodkar	M.Sc. (Biotechnology)
8.	Prof. Oshin Solanke	M.Sc. (Biotechnology)

INDUSTRIAL VISIT

Sr. No.	Industry Visit
1.	HLL Lifenity Wellness Pvt. Ltd. Nagpur
2.	Mitrasena Biowall Agri health Pvt. Ltd. Nagpur
3.	Central Biotech Pvt. Ltd. Saoner, Nagpur

HLL Lifinity Wellness Private Limited

Aim

The aim of the industrial visit was to provide with practical exposure to industrial manufacturing practices, quality control systems, and regulatory standards followed in the biopharmaceutical and wellness product sector, thereby bridging the gap between theoretical knowledge and industrial application.

Program Details

The industrial visit to HLL Lifinity Wellness Pvt. Ltd., Nagpur, was Conducted on 21st July 2025 organized for the B.Tech Biotechnology students (Final Year & Second Year) with the objective of providing practical to manufacturing sector. The visit was coordinated by Prof. Pundlik Sorte and Prof. Prajakta Arjapure from the Department of Biotechnology to enhance students' understanding of industrial biotechnology applications. During the Visit at industry session, the industry experts Dr. Shrirang Maddalwar introduced the organization, its mission, and its role in the healthcare and wellness domain. Students were briefed on the manufacturing processes of wellness and healthcare products, highlighting the importance of quality control, quality assurance, and adherence to Good Manufacturing Practices (GMP).

Objectives of the Visit

- To familiarize students with large-scale manufacturing processes used in wellness and healthcare products.
- To understand the role of biotechnology in product development, quality assurance, and quality control.
- To gain insights into Good Manufacturing Practices (GMP), safety protocols, and regulatory compliance in the industry.
- To interact with industry professionals and understand career opportunities in the biopharmaceutical and wellness sector.
- To introduce students to immunological techniques like ELISA (Enzyme- Linked Immunosorbent Assay) & their application in diagnostics.



Our Students at HLL Lifinity
Wellness, Nagpur



Industry Expert
Dr. Shirang Maddalwar
Interacting with students

Mitrasena Biowall Agrihealth Pvt. Ltd. Nagpur

Aim

The aim of the industrial visit was to provide students with practical exposure to agricultural and environmental biotechnology, with a focus on sustainable farming practices, bio-inputs, and eco-friendly biotechnological solutions used in Agri-health management.

Program Details

The industrial visit to Mitrasena Biowall AgriHealth Pvt. Ltd. was conducted 13th August 2025 for the B.Tech Biotechnology students (Second Year & Final Year) with the objective of enhancing their practical understanding of applied agricultural biotechnology. The visit was coordinated by Prof. Manas Mandaogade & Prof. Soham Deshpande.

During the visit, students gained practical knowledge of developing Biofertilizers using Microbial Consortia, Uses of Fermenter, Mass Production of Microorganisms, different physical aspects of mass level production, and Quality Control Unit and Manufacturing of biofertilizers. Students were then guided through the production and formulation units, where they observed the processes involved in the development and quality control of Agri-biotechnology products. The interaction with technical professionals provided valuable insights into sustainable agriculture, environmental responsibility, and career prospects in the Agri-biotechnology industry.

Objectives of the visit

- Provide students with hands-on exposure to biotechnological applications in sustainable agriculture and environmental management.
- Familiarize students with biowall technology and its role in improving soil health, crop productivity, and ecological balance.
- Understand the formulation, production, and quality assessment of biofertilizers and bioproducts.
- Create awareness about eco-friendly agricultural practices and the importance of biotechnology in Agri-health solutions.
- Expose students to industrial workflows and potential career opportunities in the Agri-biotechnology sector.



Group photo of Students with Industry Experts



Familiarizing Student with production of bioproducts

Central Biotech Pvt. Ltd. Saoner

Aim

The aim of this visit to give practical experience & understanding of the latest technologies, machines & tools used in today's industries so they can improve their skills & knowledge.

Program Details

The industrial visit to Central Biotech Pvt. Ltd. was organized on 22/09/2025 for the B.Tech Biotechnology 5th Sem students by the Department of Biotechnology to enhance industry-oriented learning. The visit was coordinated by Dr. Rohit Kalnake & Prof. Oshin Solanke with the objective of bridging the gap between academic knowledge and industrial application. During the visit, students gained the first-hand exposure to the company's diverse agrochemical operations including the production and formulation of NPK fertilizers, organic fertilizers, biofertilizers, Phosphate Rich Organic Manure (PROM), plant growth stimulants, and pesticides.

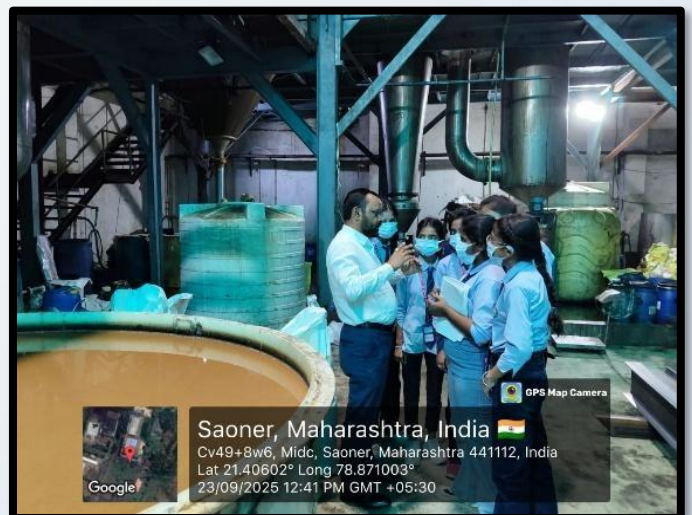
Learning about fermentation processes, mass cultivation of beneficial microorganisms, quality control practices, and the company's farmer-oriented agrochemical services. The session was expertly explained and demonstrated by Dr. Shubham Isokar, Mr. Bhavesh Bhandarkar, and Mr. Gaurav Bagekar, who provided valuable insights into various processes and technologies.

Objectives of the visit

- To provide students with firsthand exposure to diverse agrochemical operations, specifically observing the production and formulation of NPK fertilizer, organic fertilizers, phosphate rich organic manure (PROM) and pesticides. This helps students visualize the transition from laboratory scale to industrial scale.
- To demonstrate the practical application of core biotechnology concepts, including fermentation technology, mass cultivation of beneficial microorganisms and downstream processing techniques, offering students a clear view of modern biotechnology manufacturing.
- To familiarize students with rigorous Quality Control (QC) procedures, industry safety standards and the sophisticated instrumentation used to ensure product efficacy and compliance in the competitive agrochemical market.



Industry Experts with our Students at Central Biotech



Mr. Rasekar Interacting with our students

GEUST LECTURE & WORKSHOP

Sr. No.	Name of Guest	Topic of Lecture
1.	Dr. Chinmay Umbharkar	“Bridging Science & Industry: Innovative Approaches to Disease Diagnostic and Therapies”
2.	Dr. Venkatraman Bansode	“Probiotics and Nutraceuticals: Unlocking the future of Human Health”
3.	Dr. Sanjeev Patankar	“Fermentation Kinetics & Microbial Growth Kinetics”
4.	Dr. Aparna Nair	“Basics of Bioinformatics & Primer Designing along with <i>In Silico</i> PCR”

“Bridging Science & Industry: Innovative Approaches to Disease Diagnostics and Therapies”

Aim

The aim of the program was to bridge the gap between academic learning and industrial applications by providing insights into recent advancements in disease diagnostics and therapeutic strategies, emphasizing the role of biotechnology in healthcare innovation.

Program Details

The Guest Lecture on “Bridging Science & Industry: Innovative Approaches to Disease Diagnostics and Therapies” was delivered on 22nd July 2025 by Dr. Chinmay Umbharkar Senior Scientist GeNext Genomics Pvt. Ltd. for B.Tech Biotechnology students to enhance their exposure to applied healthcare biotechnology. The session commenced with an introductory address highlighting the importance of collaboration between academia and industry in advancing healthcare solutions. The resource persons shared insights into modern diagnostic tools, therapeutic innovations, and real-world industry practices. Topics such as molecular diagnostics, immunoassays, personalized medicine, and biotechnological interventions in disease management were discussed. The event proved to be highly informative and inspired students to align their academic learning with industrial and clinical applications in biotechnology.

Objectives of the Program:

- Create awareness about emerging technologies used in disease diagnostics and therapeutic development.
- Introduce students to industry-oriented approaches in biotechnology related to diagnostics, vaccines, and biopharmaceuticals.
- Enhance understanding of translational research and its impact on clinical and industrial practices.
- Provide a platform for interaction between students, academicians, and industry experts.
- Motivate students to pursue careers and research in healthcare biotechnology.



Group Photo with Guest and Synapse Forum Members



Dr. Chinmay Umbharkar delivering Guest Lecture

“Probiotics and Nutraceuticals: Unlocking the future of Human Health”

Aim

To create awareness and provide in-depth knowledge about the role of probiotics and nutraceuticals in promoting human health, disease prevention, and wellness, while highlighting their scientific basis, industrial applications, and future prospects.

Program Details

The guest lecture was organized on 13th September 2025 on the topic “Probiotics and Nutraceuticals: Unlocking the future of Human Health” by Dr. Venkatraman Bansode, ICAR-CCRI Nagpur to enhance students’ exposure to applied healthcare biotechnology and to bridge the gap between academic learning and industrial practices. The session commenced with an introductory address emphasizing the importance of collaboration between academia and industry in advancing modern healthcare solutions.

The resource person delivered an insightful lecture on innovative diagnostic and therapeutic approaches currently employed in the biotechnology industry. Key topics covered included molecular diagnostics, immunoassays, personalized medicine, and biotechnological interventions in disease diagnosis and management. Real-world industry practices and

emerging trends in healthcare biotechnology were also discussed.

Objectives of the Program

- To introduce students to the concept, classification, and health benefits of probiotics and nutraceuticals.
- To understand the mechanisms of action of probiotics and bioactive compounds in human health.
- To explore the applications of probiotics and nutraceuticals in disease prevention and health management.
- To create awareness about regulatory aspects, safety, and quality standards related to probiotics and nutraceuticals.
- To motivate students towards research, innovation, and entrepreneurship in the nutraceutical and health sector.



Dr. Venkatraman Bansode
Delivering Guest Lecture



Prof. Anuradha Khade
felicitating Dr. Bansode

“Fermentation Kinetics & Microbial Growth Kinetics”

Aim

To provide students with a comprehensive understanding of microbial growth patterns and fermentation kinetics, enabling them to apply these principles in bioprocess optimization, industrial fermentation, and research in biotechnology.

Program Details

The guest lecture was organized on 22nd September 2025 on topic “Fermentation Kinetics & Microbial Growth Kinetics” by Dr. Sanjeev. D. Patankar Retired Principal Shivprasad Sadanand Jaiswal College, Gondia to provide students with a comprehensive understanding of microbial growth patterns and kinetic models used in bioprocess and industrial biotechnology. The session began with an introductory address emphasizing the importance of fermentation kinetics in bioprocess optimization, scale-up, and industrial production. The resource person explained fundamental concepts related to microbial growth phases, growth rate constants, substrate utilization, biomass yield, and product formation kinetics. Key topics such as Monod kinetics, batch and continuous fermentation systems, factors affecting microbial growth, and industrial applications of fermentation processes were discussed with practical examples. The session also highlighted the relevance of kinetic studies in pharmaceutical, food, enzyme, and biofuel industries.

Objectives of the Program:

- To introduce students to the fundamentals of microbial growth and its different phases.
- To explain kinetic models such as Monod kinetics and their application in bioprocess engineering.
- To explore batch, fed-batch, and continuous fermentation systems used in industry.
- To highlight the practical applications of fermentation kinetics in pharmaceuticals, food, enzymes, biofuels, and other biotechnological industries.



Group Photograph of the Program



Dr. S.D Patankar with Faculty Members



Dr. Patankar Delivering Guest Lecture

“Basics of Bioinformatics & Primer Designing along with *In Silico* PCR”

Aim

The aim of the workshop was to provide with foundational knowledge and practical skills in bioinformatics, focusing on sequence analysis, primer designing, and in silico PCR techniques to facilitate modern molecular biology research.

Program Details

The Two Days hands on workshop was organized on 2nd September 2025 on topic “Basics of Bioinformatics & Primer Designing along with *In Silico* PCR” by Dr. Aparna Nair, Scientific Team Lead at Curo Biosciences Pvt. Ltd. for B.Tech Biotechnology students by the Department of Biotechnology to strengthen computational and research-oriented skills. The session began with an introduction to bioinformatics databases and tools, including sequence retrieval, analysis, and annotation. Students were guided on designing primers using standard software, considering parameters such as melting temperature, GC content, and specificity. The hands-on session on in silico PCR allowed students to simulate PCR reactions, predict amplification products, and analyse results, providing practical exposure to techniques commonly used in molecular biology and research labs. The workshop concluded with an interactive discussion, where students clarified doubts, explored real-world applications, and understood the significance of bioinformatics in modern biotechnology research and diagnostics.

Objectives of the Program

- Introduce students to basic concepts and tools of bioinformatics for DNA and protein sequence analysis.
- Teach students the principles of primer designing for PCR and its applications in molecular biology experiments.
- Provide hands-on experience in performing in silico PCR to predict amplification products and validate primers.
- Enhance understanding of the role of computational tools in experimental planning, molecular diagnostics, and research.



Dr. Nair delivering Lecture



Group photo of Program



Dr. Aparna Nair interacting with students

EVENTS

Sr. No.	Events
1.	Bio Fair 2K25
2.	International Microorganisms Day Celebration

BIO-FAIR 2K25

Aim

The aim of **BIO-FAIR 2K25** was to promote creativity, innovation, research aptitude, scientific thinking, and technical skills among undergraduate and postgraduate students from multidisciplinary fields like Life Sciences, Biotechnology, Microbiology, Biochemistry, Pharmacy, and Engineering

Program Details

The **Department of Biotechnology** organized **BIO-FAIR 2K25**, a National Level Technical Event, on **29th & 30th September 2025** at **TGPCET, Nagpur**. The event attracted UG and PG students from Biotechnology, Life Sciences, Microbiology, Biochemistry, Pharmacy, and Engineering. It commenced with **ceremonial lamp lighting** and a **soulful prayer**. **Dr. Rajpal Singh Kahyap**, Director at Central India Institute of Medical Sciences Nagpur & **Dr. Pandiyan Kuppusamy**, ICAR-CIRCOT graced the occasion as Chief Guest and Guest of Honour delivered an inspiring inaugural address. **Dr. Suryakant Thorat**, Campus Director, TGPCET, gave the opening remarks, highlighting the importance of research and innovation. The event featured activities like **Paper Presentation, Model Mania, Idea Pitching, E-Sport, poster presentation** and **Agar Art**, fostering creativity and scientific thinking.

Objectives of the Program

- To cultivate and showcase students' research, innovation, and scientific communication skills.
- To promote interdisciplinary learning through technical competitions.
- To encourage collaboration, critical thinking, and real-world problem-solving among students.
- To bridge academic learning with practical application through creative competitions.



Successful Conduction of *National Level Technical Event BIO-FAIR 2K25*

INTERNATIONAL MICROORGANISM DAY

Aim

To celebrate International Microorganisms Day by engaging students in creative and intellectual activities such as debate, reel-making, and rangoli, thereby enhancing awareness of microbiology, its applications, and its impact on nature, health, and society.

Program Details

The Department of Biotechnology of Tulsiramji Gaikwad-Patil College of Engineering & Technology, Nagpur successfully organized an “Interdepartmental Debate, Reel and Rangoli competition on the occasion of International Microorganisms Day” on 17th Sep 2025 for B.Tech Engineering students. The program commenced with inauguration by **Dr. Suryakant Thorat sir, Campus Director, GPGI**. The event began with the traditional lamp lighting and a soulful prayer ceremony. Opening remarks were given by Dr. Rohit Kalnake. The chief guest Dr. Suryakant Thorat sir has addressed the gathering where he gave very precise and concise thoughts about what science is and what Spirituality is. The competitions were fairly evaluated by esteemed Judges **Dr. Shenal Abhyankar, Dean SDC & Prof. Nilesh Verma T & P Department**.

Objectives of the Program

- Enhance awareness of microbiology and its significance in health, environment, and industry.
- Encourage critical thinking and communication skills

through debates on current microbiological issues.

- Foster creativity and innovation by presenting microbiology-related concepts through reels and visual storytelling.
- Promote cultural expression and scientific appreciation using rangoli as a medium to depict microbiological themes.
- Inspire students to connect academic microbiology knowledge with real-world applications.



Successful Conduction of International Microorganisms Day

Students Achievement / Participation

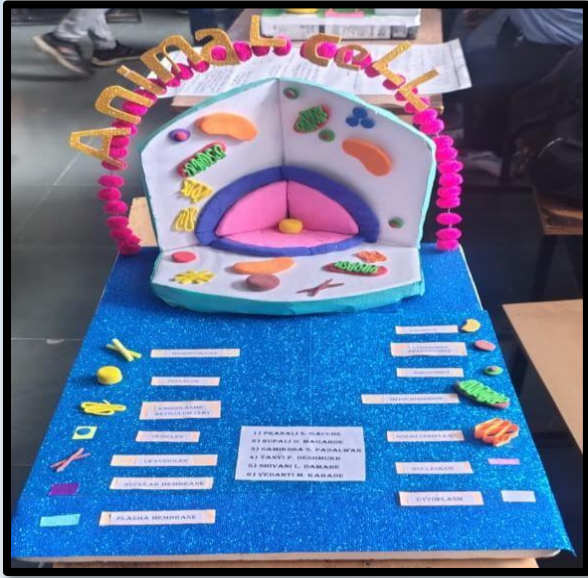
Sr. No.	Event	Description
1.	IIT Guwahati – Two days Workshop on Bioinformatics with AI	Students gained hands-on exposure in Bioinformatics with AI through an IIT Guwahati workshop
2.	International Microorganism Day	Winners of International Microorganism Day (Debate, Reel & Rangoli Competition)
3.	Engineers Day Celebration	Turning ideas into innovation -students celebrating Engineers Day through model making”
4.	Christmas Food Fest 2k25	Winners of Christmas Food Fest at TGPCET
5.	Interdepartmental Photography Competition	Winner of Interdepartmental Photography Competition



Students gaining hands-on exposure in Bioinformatics with AI through an IIT Guwahati workshop



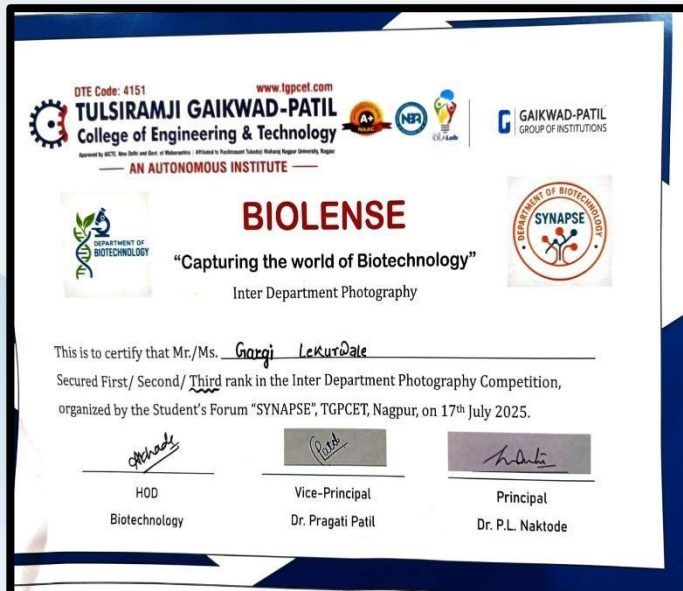
**Winners of International Microorganism Day
(Debate, Reel & Rangoli Competition)**



“Turning ideas into innovation -students celebrating Engineers Day through model making”



Winners of Christmas Food Fest at TGPCET



Winner of Interdepartmental Photography Competition

NPTEL Courses

Sr. No.	Name of Student	Topic	Status
1	Tanushree Mirashe	Artificial Intelligence in Drug Discovery & Development	Elite +Silver
2	Arya Khedkar	Fundamentals of Bioprocess Engineering	Completed
3	Prajal Harinkhede	Cell & Molecular Biology	Completed
4	Pranali Shinde	Genetic Engineering Theory & Application	Elite
5	Vaishnavi Bhusari	Genetic Engineering Theory & Application	Completed
6	Nidhi Ingale	Genetic Engineering Theory & Application	Completed
7	Swati Girgawkar	Biomedical Instrumentation	Elite
8	Pratham Bhandula	Cell Culture Technology	Elite
9	Rudrani Sawarkar	Cell Culture Technology	Completed

DTE Code: 4151 www.tgpcet.com
TULSIRAMJI GAIKWAD-PATIL
 College of Engineering & Technology
 Approved by AICTE, New Delhi and Govt. of Maharashtra | Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
 — AN AUTONOMOUS INSTITUTE —

Department of
Biotechnology Engineering

NPTEL
 NATIONAL PROGRAM ON TECHNOLOGICAL
 ENHANCED LEARNING LOCAL CHAPTER

Congratulations

All who have Successfully Completed their NPTEL Courses.
 We are delighted to recognize the outstanding achievement of our 5th Semester Students in the online certification programs funded by the Ministry of Education, Government of India.

 TANUSHREE S. MIRASHE 80% ALIN DRUG DISCOVERY AND DRUG DEVELOPMENT	 AARYA M. KHEDKAR 54% FUNDAMENTALS OF BIOPROCESS ENGINEERING	 PRAJAL K. HARINKHEDE 54% CELL AND MOLECULAR BIOLOGY
 PRANALI C. SHINDE 73% GENETIC ENGINEERING: THEORY AND APPLICATION	 VAISHNAVI L. BHOSARI 51% GENETIC ENGINEERING: THEORY AND APPLICATION	 NIDHI INGLE 58% GENETIC ENGINEERING: THEORY AND APPLICATION

WISHING YOU CONTINUED SUCCESS IN ALL YOUR FUTURE ENDEAVORS!

www.tgpcet.com
 NH-44, Mohgaon, Wardha Road, Nagpur 441108
 B.PHARM | D.PHARM | B.TECH | B.ARCH | M.TECH | MBA | MCA | BBA | BCA | POLYTECHNIC | D.ARCH | BAMS | B.SC NURSING | PHYSIOTHERAPY | PH.D

GAIKWAD-PATIL
 GROUP OF INSTITUTIONS
 YOUR DREAM IS OUR MISSION

DTE Code: 4151 www.tgpcet.com
TULSIRAMJI GAIKWAD-PATIL
 College of Engineering & Technology
 Approved by AICTE, New Delhi and Govt. of Maharashtra | Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
 — AN AUTONOMOUS INSTITUTE —

Department of
Biotechnology Engineering

NPTEL
 NATIONAL PROGRAM ON TECHNOLOGICAL
 ENHANCED LEARNING LOCAL CHAPTER

Congratulations

We are delighted to recognize the outstanding achievement of our Students in the online certification programs funded by the Ministry of Education, Government of India.

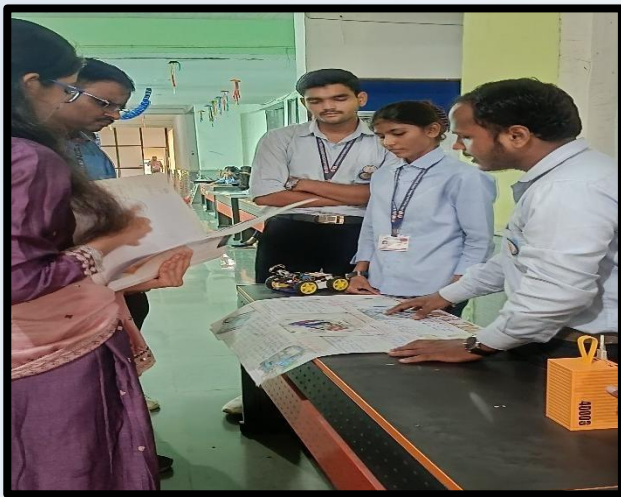
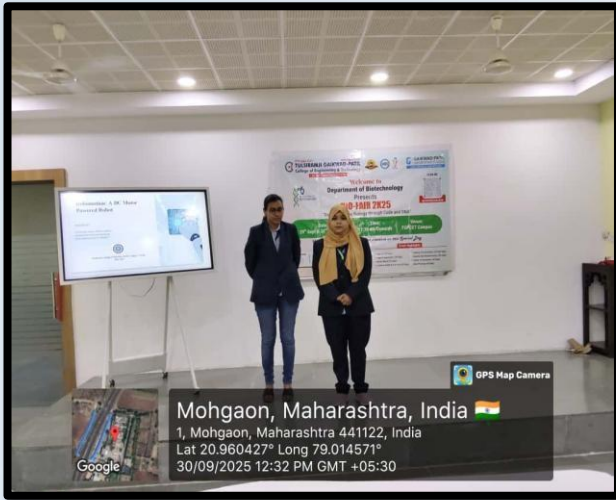
 Ms. Swati Girgawakar Biomedical Instrumentation (ELITE)	 Mr. Pratham Bhandula Cell Culture Technology (ELITE)	 Ms. Rudrani Sawarkar Cell Culture Technology (Completed)
---	--	---

Website www.tgpcet.com
 Address NH-44, Mohgaon, Wardha Road, Nagpur 441108

GAIKWAD-PATIL
 GROUP OF INSTITUTIONS
 YOUR DREAM IS OUR MISSION

B.TECH | M.TECH | MBA | MCA | BBA | BCA | POLYTECHNIC | D.ARCH | BAMS | B.SC NURSING | B.PHARM | D.PHARM | PHYSIOTHERAPY | PH.D

Students Successfully Completed NPTEL Courses



**Some Glimpses of National Level Technical Event
 Bio-Fair 2K25**

SOCIAL MEDIA

- **LinkedIn**

<https://www.linkedin.com/company/tgpcet-b-tech-biotechnology/>

- **Instagram**

<https://www.instagram.com/biotechnolgy.tgpcet?igsh=MTI1OGGo2Y3R1ajRxOA==>

- **YouTube**

https://youtube.com/@bttgp?si=_IZowxw1T8Bv7sH8