

Establishment Year - 2007

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**TULSIRAMJI GAIKWAD-PATIL**  
College of Engineering & Technology

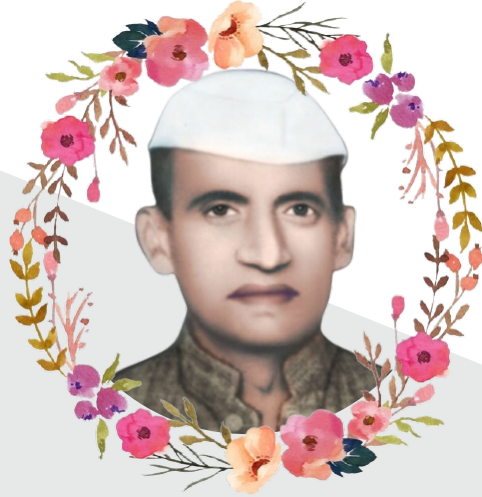
— AN AUTONOMOUS INSTITUTE —



# News Letter

Department of Biotechnology

# Our Inspiration



**Late Shri. Tulsiramji Gaikwad-Patil**  
(1<sup>st</sup> April 1915 - 18<sup>th</sup> July 1986)

The Gaikwad-Patil Group derives its inspiration from Late Shri. Tulsiramji Gaikwad-Patil, the grandfather of the Chairman of the Group, Dr. Mohan Gaikwad-Patil. A man far ahead of his times, Shri. Tulsiramji Gaikwad-Patil was primarily an agriculturist, but also a true connoisseur with many varied interests. One of his passions was education. This visionary bucked the trend of sending sons into agriculture and ensured excellent education for his children and grandchildren. It was his foresight that took the family from being rural landlords to urban, uber-class professionals and entrepreneurs. It would not be far wrong to say that the real foundation of the Gaikwad-Patil Group was laid by Shri. Tulsiramji Gaikwad-Patil's ability to look into the future. The GPGI has set its footprints in the educational sector already and has a vision to become one of the best and most dynamic group of institutions. With the blessing of our patron Late Shri. Tulsiramji Gaikwad-Patil, The GPGI is setting further its feet into the field of medical education and will cater to varied educational needs of the increasingly bustling region of Vidarbha.

# PRINCIPAL MESSAGE



**DR. P. L. NAKTODE**  
**Principal**

It is my privilege to warmly welcome you to the college, which is an autonomous institution, committing to quality education. We work on the principle of “Learn to Grow” With this very inspiring thought, Vidarbha Bahu Uddeshiya Shikshan Sanstha Nagpur has laid a foundation to provide education in the field of engineering to the students to enable them to become good practicing engineers, capable managers and above all a good human being to build a stronger, vibrant and skilled India. We dream that TGPCET should play a definite role in shaping the careers of tomorrow's leaders and developing individuals to have an impact on global development.

# VICE PRINCIPAL MESSAGE



**DR. PRAGATI PATIL**  
**Vice Principal**

Welcome to Tulsiramji Gaikwad Patil College of Engineering and Technology (TGPCET) in Nagpur, Maharashtra, a leading educational institution. Inspired by the words of Shri. APJ Abdul Kalam, "Dreams are not those which we see while sleeping, but dreams are those which do not let us sleep,". TGPCET strives for ambitious goals through knowledge acquisition, hard work, and perseverance. Our institution has quickly emerged as one of Maharashtra's premier technical education institutions. We emphasize academic excellence and technical skill development to meet industry demands while instilling values of integrity, morality, and sustainability.

## **Vision Of Institute**

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

## **Mission Of Institute**

- To strive for rearing standard and stature of the students by practicing high standards of professional ethic , 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 Department**

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

## **Mission of 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

# Industrial Visit

## Mitrasena-Biowall Agri health Pvt. Ltd

The industrial visit to Mitrasena-Biowall Agrihealth Pvt. Ltd. provided an invaluable learning experience for the 60 students present. They observed the production of biofertilizers using microbial consortia and explored various types of fermentors, including solid-state fermentors. This hands-on exposure deepened their understanding of sustainable agricultural practices and the significance of biofertilizers in enhancing soil health. Engaging with industry professionals fostered discussions on current innovations and career opportunities in Agro biotechnology..



### **Our students at Mitrasena-Biowall Agri health Pvt. Ltd**

A special thanks to Ms. Krutika for her valuable time and effort in explaining the production process to our students . The visit was meticulously planned and coordinated by our dedicated faculty members, Prof. Soham Deshpande and Prof.Sakshi Zade, whose efforts ensured the success of this enriching experience.

## Haldiram Foods International Pvt. Ltd

Department of Biotechnology, Tulsiramji Gaikwad-Patil College of Engineering and Technology (TGPCET) organized an insightful industrial visit for fourth year and third year students to Haldiram Foods International Pvt. Ltd., a leading name in the food industry. The visit provided students with a unique opportunity to gain practical exposure to the applications of biotechnology in the food sector



### **Our Students at Haldiram Foods International Pvt. Ltd. Nagpur**



## Guest lecture

### ❑ Guest Lecture on “Animal Models in Cardiovascular Research”

On 24th August 2024, the Department of Biotechnology at Tulsiramji Gaikwad Patil College of Engineering and Technology, Mohgaon, Nagpur, held a highly informative guest lecture delivered by Dr. Gaurang Deshpande, Chief Scientific Officer at Spandan Heart and Research Institute, Nagpur. The lecture, focused on "Animal Models in Cardiovascular Research,"



Dr. Deshpande’s talk emphasized the crucial role that animal models play in deepening our understanding of cardiovascular diseases and in the development of new, effective treatments. His explanation of the physiological aspects of heart disease and the challenges faced in cardiovascular disease (CVD) research captured the attention of both students and faculty.

The Department of Biotechnology at Tulsiramji Gaikwad Patil College of Engineering and Technology, Mohgaon, Nagpur, successfully organized a two-day hands-on workshop on "Biofertilizers: Innovations in Sustainable Agriculture for Enhanced Soil Health and Productivity" for students of the 3rd, 5th, and 7th semesters. The workshop, held on October 19th and 21st, 2024, provided students with practical training in the development of biofertilizers, focusing on their role in promoting sustainable agriculture and improving soil health.

### ❑ Hands on Workshop on Biofertilizers: Innovations in Sustainable Agriculture for Enhanced Soil Health and Productivity



Two-day hands-on workshop on "Biofertilizers: Innovations in Sustainable Agriculture for Enhanced Soil Health and Productivity"





**The students were guided by Dr. Arti Shanware, Head of the Biotechnology Department, Rajiv Gandhi Biological Technology, LITU, Nagpur**

Along with other faculty members from the Biotechnology Department. Dr. Shanware, a respected expert in the field, shared her insights on the importance of biofertilizers in reducing the dependency on chemical fertilizers and enhancing soil fertility through eco-friendly solutions.

### **Forum installation “SYNAPSE”**



# MoU

The Department of Biotechnology at Tulsiramji Gaikwad-Patil College of Engineering and Technology (TGPCET), Nagpur, has entered into a strategic partnership with Yashaswi Academy for Skills by signing a Memorandum of Understanding (MoU). This collaboration aims to create extensive career opportunities for B.Tech Biotechnology students, strengthening their prospects in the pharmaceutical and biopharmaceutical sectors



## **MoU Signed Between TGPCET Nagpur and Yashaswi Academy for Skills to Enhance Career Opportunities On 15th October 2024**

The partnership is expected to provide significant industry exposure and skill development, bridging the gap between academic learning and real-world applications. By facilitating direct interaction between students and companies, the MoU aims to enhance employability and prepare graduates for successful careers in the biotechnology field. This initiative marks a significant step forward in strengthening industry-academia relations, ultimately benefiting both students and companies seeking skilled professionals



**Mr. Atkari emphasizing the academy's role in connecting aspiring graduates with leading companies, offering them valuable hands-on experience and career pathways.**

## ENGINEERS DAY ORGANIZED BY ISTE and IEI

Students designed and constructed models to demonstrate the integration of sustainable farming techniques with biogas production systems using eco-friendly materials and innovative ideas. This model-making activity inspired students to explore green technologies and adopt sustainable practices, aligning with global efforts to promote environmental conservation and energy efficiency under the guidance of Prof. Sakshi zade



Our students showcased their creativity and scientific understanding by participating in a "Waste-o-Craft" competition. They repurposed waste materials such as bottles, tin cans, and pipes to construct an accurate and functional model of the digestive system .



3D animal cell model using waste material, creativity and environmental consciousness by designing 3D animal models using waste materials. They repurposed items such as bottle caps, dishwashing scrubbers, pipes, and other discarded objects to construct their models



**This innovative activity not only showcased their artistic talents but also highlighted the importance of recycling and sustainability**

## NSS camp

On the occasion of Gandhi Jayanti, October 2nd, an NSS (National Service Scheme) camp was organized at the historic Sevagram Bapu Kuti, the ashram where Mahatma Gandhi lived and worked during the later years of his life.



This camp aimed to honor the legacy of the Father of the Nation by engaging participants in various activities inspired by Gandhian principles.

## News published

