

NAAC Accredited Vidarbha Bahu-uddeshiya Shikshan Sanstha's TULSIRAMJI GAIKWAD-PATIL College of Engineering & Technology





An Autonomous Institute -



Innovation begins with information

DEPARTMENT OF MECHANICAL ENGINEERING





VOLUME 5 ISSUE 2

https://www.tgpcet.com/

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About TGPCET

Tulsiramji Gaikwad-Patil College of Engineering and Technology



Tulsiramji Gaikwad-Patil College of Engineering and Technology (TGPCET) was established in the year 2007 by Vidarbha Bahu- Uddeshiya Sheshan Sanstha (VBSS), a registered society. It is a self- financed Private Engineering College, which is affiliated to Rashtrasant Tukadoji Maharaj Nagpur University (RTMNU) Nagpur and is approved by All India Council for Technical Education, New Delhi. Also, college is approved by Directorate of Technical Education (DTE), Mumbai, and Maharashtra State. The Institute is Accredited with A+(3.32CGPA) by NATIONALASSESSMENTAND ACCREDITATION COUNCIL (NAAC) and NBA. An Autonomous Institute affiliated to RTM Nagpur University, Nagpur.



by inculcating knowledge and profession as work practices.



PEO's & PSO's PEOs

Program Educational Objectives (PEOs) of the Department

- Demonstrate essential technical skills to identify analyze and solve problems and design issues in mechanical engineering.
- Analyze the complex problems in the field of mechanical engineering by using modern tools.
- Apply mechanical engineering concepts for the betterment of society and environment.
- Develop professionals having administrative and managerial skills for mechanical engineering and allied industries.
- Demonstrate the attributes of mechanical engineering in lifelong learning to contribute towards societal needs.

PSOs

Program Specific Outcomes (PSOs) of the Department

- Apply the knowledge to work professionally and ethically in Thermal, Design, production and Manufacturing areas of Mechanical engineering.
- Analyze and design mechanical components and its processes to meet the societal needs.
- Apply Engineering and Management principles to work professionally in the industry or as an entrepreneur.

Management



Dr. Mohan Gaikwad - Patil Chairman, Gaikwad -Patil Group



Mr. Akash Gaikwad-Patil Vice Chairman, Gaikwad-Patil Group

With more than twenty years of experience in education system to his credit, Established the Gaikwad-Patil Group of Institutions in Nagpur to cater to the quality education needs of the youth in Vidarbha. His early experience of teaching in an engineering college made him acutely aware of the dissonance between engineering education in the country and the requirements of the industry. He therefore began with a dream of starting an engineering college that equips students with knowledge, skills and attitudes relevant to the industry. That dream has manifested today in the form of two engineering colleges, well known in the region for their constant striving to impart quality and industry-relevant education to their students. Hardly in his early forties, Dr. Gaikwad is the young and dynamic face of the Group. His contagious enthusiasm and unflagging drive is truly inspiring.

In a world brimming with challenges, the need for brilliant engineers who can think critically, solve problems creatively, and adapt to a rapidly evolving technological landscape has never been greater. At TGPCET, we are committed to providing an education that goes beyond textbooks. Our curriculum is meticulously crafted to equip students with the technical expertise, soft skills, and design thinking abilities necessary to thrive in the ever-changing engineering landscape. We believe in nurturing well-rounded individuals with a strong foundation in ethics, social responsibility, and a passion for making a positive impact on the world. Our state-of-the-art facilities, coupled with a dedicated and experienced faculty, provide a stimulating learning environment that ignites curiosity and encourages exploration. We don't just produce engineers; we empower future leaders, innovators, and entrepreneurs who will shape the world of tomorrow. We are confident that our graduates will be at the forefront of technological advancements, tackling global challenges, and building a future brimming with possibilities.



Dr. Anjali Patil-Gaikwad President, Gaikwad-Patil Group of Institutions

"Shaping Minds, Building Futures: Welcome to the Engineering Innovation Hub." "Welcome to TGPCET, a premier institution dedicated to nurturing exceptional engineers who can shape the world of tomorrow. Here, we believe in cultivating a stimulating learning environment that fosters creativity, critical thinking, and a passion for innovation. Our vision is to provide a holistic learning experience that equips you with the technical expertise, leadership skills, and innovative thinking needed to thriven dynamic industry. With a rich legacy of academic excellence, we offer adverse range of engineering and management programs designed to equip you with the knowledge, skills, and experiences needed to thrive in the ever-evolving engineering land scape. Our dedicated faculty, state-of-the-art facilities, and strong industry partnerships ensure you receive a well-rounded education that prepares you for success in your chosen field. We invite you to join our vibrant community and embark on a journey of excellence."

Management



Dr. Sandeep Gaikwad Treasurer, Gaikwad-Patil Group of Institutions

"Creating a Brighter Tomorrow, One Investment at a Time: Your Pathway to

Engineering Excellence. The essence of life is to live a life for others and die for a noble cause. We express our gratitude for receiving an opportunity to serve the nation. We have a crystal-clear vision of enlightening the student brain with a sound and technology-rich academic curriculum. We pledge to ensure that the students will not only progress in their respective fields but will also become responsible citizens by abiding by the rules and will live disciplined life. Our college has state-of-the-art facilities for teaching, research and development. The student's who have passed out of our college have already proved their mettle in various fields. I personally appeal to all the students to make use of the facilities here and improve their skills to have a glorious career ahead.



Dr. P. L. Naktode Principal

It gives me immense pleasure and pride in welcoming you to Tulsiramji Gaikwad-Patil College of Engineering & Technology, one of the rapidly growing institutions in Vidarbha, dedicated to fostering technical education in the region. The vision of our institution is to empower youths and to produce technically skilled manpower with very high moral values that are not only employable but are also capable of creating employment for masses. Our mission is to provide outcome-based education by providing all necessary inputs, facilities and environment to empower our students in all possible ways. We understand that co-curricular and extra-curricular activities help in enhancing ones personality. This institution provides an environment for nurturing the sea activities so that young men and women get an opportunity to upgrade their skills and show cases their talent. To strengthen the wings of our students we have dynamic and dedicated workforce. Tulsiramji Gaikwad-Patil College of Engineering & Technology is committed to employing, developing and retaining the best teachers.



Dr. Pragati Patil Vice Principal Albert Einstein said," Education is not about learning off acts but training young minds to think." There is a big difference between cramming gup facts and learning them so that they can be applied in productive ways. At TGPCET, we try to work towards holistic development of our students by providing them the tools and experiences that encourage our students to think. The aim is to create empowered minds so that students are able to decide what is good for them, differentiate between right and wrong, choose opportunities that help build them up and enable them to live in harmony with all existence. As the Vice Principal, I am delighted that the institute's value s align with my own personal values, including the importance of trust, respect, innovation and a sense of community.

From the HOD's Desk



Dr. Vijay Talodhikar Head of Department

"The function of education is to teach one to think intensively and to think critically. Intelligence plus character – that is the goal of true education." —Dr. Martin Luther King Jr.

I would like to reiterate how proud I am to be part of such a vibrant and dedicated community within the Department of Mechanical Engineering. Our journey since our establishment in 2011 has been marked by growth, innovation, and a relentless pursuit of excellence. As we look forward to the next semester, let us carry the momentum we have built and continue to support one another in our academic and professional endeavors.

I encourage each of you to remain curious, collaborative, and committed to pushing the boundaries of what is possible in our field. Together, we can tackle the challenges of the future and make meaningful contributions across various industries. Thank you for your continued enthusiasm and engagement. I look forward to celebrating our future achievements and witnessing the impact we will undoubtedly make in the world of Mechanical Engineering.



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Industrial Visit Index

Sr. No	Semester	Name of Industry	Date of Visit	Name of Subject mapped with industry	Total Number of student present	PO-PSO mapped
1	IV & VI	KEC International Ltd. Nagpur	13-01-2025	Basic Electronic and Communication & Mechatronics	50	P01-3,P02- 3,P03-3,P05- 3,P09-3,P012- 3,PS03-3
2	IV & VI	Koradi Thermal Power Station Nagpur,	31-01-2025	Energy Conversion and Engineering Thermodynamics	60	P01-3,P03- 3,P05-3,P010- 3,P012-3,PS03-3
3	VI	Tata Advanced System Nagpur	12-02-2025	BME3601;Mechantr onic & Automobile Engineering	33	P01-3,P02- 3,P03-3,P05- 3,P010-3,P011- 3,P012-3,PS03-3

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Industrial Visit1

KEC International Ltd. Nagpur



Aim: To conduct Industrial visit for student to develop into professional catering to industry centric technical skills.

Objective:

- To provide students with practical exposure and hands-on experience in the field of power transmission and distribution,
- To familiarize them with the latest technologies and industry practices.
- Quality Standards: Learn about the quality standards and certifications required in the industry, and how they are implemented and maintained.
- Safety Protocols: Understand the importance of safety protocols in an industrial environment and observe their practical application.
- Environmental Impact: Gain awareness of the environmental considerations and sustainable practices adopted by the industry.

Outcome of the Visit:

- 1. Student understand the practical applications of Basics of Electronic and Mechatronics
- **2.** Students emphasis on *PO1,PO2,PO3,PO5 and PO12* due to the technical and Interdisciplinary nature of Mechatronics
- **3.** During Visit Mr. Raman Badge also conducted Activities based on Acid River and Plane Carpet on play group the main aim was to understand the *PO9 (Individual and Team work),PO10 (Communication)* were mapped.

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Industrial Visit 2

Koradi Thermal Power Station Nagpur,



Aim: To conduct Industrial visit for student to develop into professional catering to industry centric technical skills.

Objective:

1. To understand the principles and processes involved in thermal power generation, including coal handling, boiler operations, turbine operations, and power transmission.

2. To observe and learn from the day-to-day operations of a thermal power plant, including maintenance, safety procedures, and environmental measures.

3. To relate theoretical concepts learned in the classroom to real-world applications in a thermal power plant.

4. To develop skills in areas such as teamwork, communication, and problem-solving through interactions with plant personnel and observation of plant operations.

5. To map attainment of course outcome of course Engineering Thermodynamics & Energy Conversion.& Program Outcome PO1,PO2,PO3,PO5,PO9,PO10,PO12,

Outcome of the Visit:

1. Students visited the Coal Handling Plant (CHP) to understand the coal handling process, including unloading, crushing, and conveying coal to the boiler.

2. Students observed the boiler operations, including the combustion process, steam generation, and superheating.

3. Students visited the turbine area to understand the conversion of thermal energy into mechanical energy, and subsequently into electrical energy.

4. Students observed the generator operations, including the conversion of mechanical energy into electrical energy.

5. Students visited the control room to understand the monitoring and control of the power plant's operations.

6. Students visited the switchyard to understand the transmission of electrical power to the grid.

Tata Advanced System Nagpur



Industrial Visit at Tata Advanced System Ltd., Nagpur

Aim: To conduct Industrial visit for student to develop into professional catering to industry centric technical skills.

Objective:

1. To provide students with practical exposure and hands-on experience in the latest manufacturing technologies and processes used in the electrical, electronics, and automotive industries.

2. To bridge the gap between theoretical knowledge and industrial applications, enabling students to the practical implications of their studies.

3. To familiarize students with the working culture, safety protocols, and quality control measures adopted by a leading manufacturing company like Tal Manufacturing Solutions Limited.

4. To develop skills in areas such as teamwork, communication, and problem-solving through interactions with plant personnel and observation of plant operations.

5. To provide students with opportunities to interact with industry professionals, learn from their experiences, and gain insights into the latest industry trends and developments.

6. To map attainment of course outcome of course Engineering Mechatronics & Program Outcome P01, P02, P03, P04, P05, P010, P011, P012

Outcome:

1. Students visited the various sections of the production floor, including Floor beam of Boeing plane preparation technique

2. Students observed machining of various parts of material like titanium, Aluminum used in Boeing Plane.

3. Students visited Electronic component assembly used in Boeing aero planes, including the 787- 8, 787-9, and 787-10 models.

4. Students observed valuable insights into the company's manufacturing processes, quality control measures, and commitment to delivering high-quality products to the aerospace industry.

5.Student visited the TQM department, where they learned about the company's quality management system, including its policies, procedures, and metrics.

6. Student visited the PPC section, where we learned about the company's production planning and control processes, including demand forecasting, production scheduling, and inventory management.

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Expert Lecture Index

Sr. No	Semester	Subject of Expert Lecture	Date of Conduction	Expert lecture conducted by	Total Number of student present	PO-PSO mapped
1	IV ,VI,VIII	3D Printing and Innovative Product Development	11th January 2025	Dr. A. M. Kuthe, Professor and Incharge of BETIC, VNIT, Nagpur		PO3-3,PO2-3,PO3- 3,PO5-3,PO8- 3.PO12-3,
2	IV ,VI,VIII	Shop floor management	4 March 2025	Mr. Sanjay Agrawal, Head of Training Department at Mahindra & Mahindra Ltd Nagpur		PO1-3,PO2-3, PO5- 3, PO12-3,PSO3-3,
3	IV ,VI,VIII	Quality System in Total Quality Management	11th April 2025	Mr. Vivek Shrouti, Deputy General Manager- CS & MC at Evonik Steel Limited,		PO1-3,PO2-3,PO3- 3,PO5-3,PO9- 3,PO12-3,PSO3-3,

3D Printing and Innovative Product Development



Aim:- The aim of the guest lecture was to introduce students to advanced 3D printing technologies and their applications in product design and innovation. It focused on fostering creative thinking, interdisciplinary collaboration, and providing insights into prototyping, research opportunities, and entrepreneurial pathways in additive manufacturing and medical devices.

Objectives:

1. To introduce students to the principles and applications of 3D printing technology in product design and development.

2. To explore the role of 3D printing in innovation, particularly in the fields of medical devices and tissue engineering.

3. To encourage students to translate their innovations into entrepreneurial ventures, contributing to societal advancement.

Program Details :-

The Guest Lecture on "3D Printing and Innovative Product Development" was delivered on 11th January 2025 by Dr. A. M. Kuthe, Professor and In-charge of BETIC, VNIT, Nagpur. Dr. Kuthe emphasized the Need for Product Design and Development and explored Additive Fabrication of Models. He shared various case studies on 3D printing, including a compelling example of fabricating a Temporomandibular Joint (TMJ), which was successfully restored in a patient.

Outcomes of the Event:-

1.Students gained a comprehensive understanding of 3D printing technology and its applications in product development, especially in engineering and medical fields.

2. The program encouraged students to think creatively and approach product design and innovation with a problem-solving mindset, exploring new possibilities in engineering solutions.

3.Students developed the ability to work effectively in interdisciplinary teams, particularly between biotechnology and mechanical engineering, fostering collaboration on innovative projects.

4.Students learned practical insights into prototyping and small-scale production, enhancing their understanding of how to bring conceptual designs to tangible, manufactural models.

5.The program introduced students to emerging areas like tissue engineering, medical device innovation, and 3D printing in engineering, inspiring them to explore these fields for future research and career development

Shop Floor Management



Aim: To provide students with a comprehensive understanding of Shop Floor Management and its applications in the manufacturing industry.

Objective:

1. To introduce students to the concept and importance of Shop Floor Management in manufacturing industries.

2. To discuss the key components of effective Shop Floor Management, including lean manufacturing principles.

3. To explore the role of technology and digitalization in enhancing Shop Floor Management and productivity.

4. To emphasize the importance of quality management and workplace safety on the shop floor.

Program Details:

The Department of Mechanical Engineering recently hosted a guest lecture on "Shop Floor Management" delivered by Mr. Sanjay Agrawal, Head of Training Department at Mahindra & Mahindra Ltd Nagpur. The session covered key aspects of shop floor management, including its introduction and importance in manufacturing, components of effective shop floor management, and lean manufacturing principles to maximize efficiency and minimize waste Other highlights included:

Technology and Digitalization: Leveraging technology to enhance shop floor management and improve productivity, such as Shop Floor Control Systems (SFC), Manufacturing Execution Systems (MES), and Quality Management Software (QMS).

Quality Management and Workplace Safety: Ensuring quality and safety on the shop floor through effective management practices, including quality control and workplace safety protocols.

Leadership Role: Understanding the crucial role leadership plays in successful shop floor management, including driving sales, enforcing company policies, and ensuring compliance with safety regulations.

Case Studies and Best Practices: Examining real-world examples and industry best practices, such as the 5S method, visual management tools like Kanban boards and Gantt charts, and establishing

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manufacturing KPIs to measure productivity and efficiency.

The lecture concluded with a Q&A session and interactive discussion, providing students with valuable insights into shop floor management. The event was supported by esteemed faculty members and the program coordinator, Prof. Pramar Bakane.

Outcomes:-

1. Students will understand the significance of Shop Floor Management in manufacturing industries and its impact on productivity and efficiency.

2. Students will be able to analyze the key components of effective Shop Floor Management and apply lean manufacturing principles.

3. Students will learn about the application of technology, such as SFC and MES, to enhance Shop Floor Management and productivity.

4. Students will appreciate the importance of quality management and workplace safety on the shop floor and understand how to implement effective practices.

Quality System in Total Quality Management



Aim :-To provide students with valuable insights into effective quality systems within Total Quality Management, enhancing their understanding of quality improvement processes, operational workflows, and strategies for achieving continuous productivity enhancement in industrial settings.

Objectives:-

1.To understand the fundamentals of TQM, focusing on customer satisfaction, continuous improvement, and employee involvement.

2.To explore how integrating quality practices across all departments enhances efficiency and performance.

3.To gain practical experience with tools like Six Sigma, Pareto Analysis, and Control Charts to improve quality and solve problems.

4.To learn from successful TQM implementations in various industries and discuss challenges and benefits.

5.To equip skills to design and maintain quality management systems aligned with TQM principles.

Program Details :

The Department of Mechanical Engineering is organized a guest lecture on the topic "Quality System in Total Quality Management" scheduled for 11/04/2025. This insightful session aims to deepen students' understanding of quality systems, continuous improvement processes, and best practices in total quality management. The lecture provided valuable knowledge and practical insights, equipping students with the tools to address real-world quality challenges in industries. Additionally, the event will feature the felicitation of office bearers, making it a memorable occasion

Outcomes

1. Have a deep understanding of Total Quality Management (TQM) fundamentals, including customer satisfaction, continuous improvement, and employee involvement.

2. Understand how integrating quality practices across departments can enhance efficiency and performance.

3. Possess practical knowledge of quality management tools like Six Sigma, Pareto Analysis, and Control Charts.

4. Be familiar with successful TQM implementations, challenges, and benefits in various industries.

5. Be equipped with skills to design and maintain quality management systems aligned with TQM principles.

6. Have benefited from interactive learning and discussions with industry experts, enhancing their understanding of TQM concepts and applications.

Two-Day Workshop on "Hands-on Training on ANSYS Software"



Aim: This two-day workshop aims to provide participants with comprehensive hands-on training on ANSYS Software from understanding its core functionalities to applying simulation techniques for real-world engineering problems. This training is essential for engineers, researchers, and enthusiasts looking to enhance their expertise in computational analysis and design.

Objectives:-

- 1. **Fundamental Understanding:** Provide participants with a solid foundation in ANSYS software, including its interface, tools, and capabilities for engineering simulations.
- 2. **Hands-on Training:** Enable participants to perform real-time simulations, analyze results, and optimize designs through practical exercises and case studies.
- 3. **Application in Engineering:** Demonstrate the application of ANSYS in various engineering fields, such as structural analysis, fluid dynamics, and thermal simulations.
- 4. **Problem-Solving Skills:** Equip participants with the ability to diagnose and troubleshoot common simulation challenges, enhancing their problem-solving and analytical skills.

Program Details :-

Day 1- (24/03/2025)

Mr.Mayuresh Kuchekar, Design Engineer at Virtual Simutech Pvt. Ltd., commenced the workshop with an engaging presentation covering:

Session1: Introduction to ANSYS

- Overview of ANSYS software and its applications
- Navigation and user interface

Session 2: CFD Analysis and Simulation

- Understanding computational fluid dynamics (CFD)
- Setting up and running CFD simulations

Day 2-(25/03/2025)

Mr. Mayuresh Kuchekar led a hands-on training session on geometric meshing and pre-processing for CFD simulations.

Session 1: Geometric Meshing and Pre-Processing

- Creating and refining meshes
- Pre-processing techniques for CFD simulations

Session 2: Post-Processing and Results Analysis

- Interpreting and visualizing simulation results
- Best practices for post-processing and results analysis

Session 3:- Valedictory Function

The workshop concluded with a valedictory function, where participants received certificates of participation and shared their feedback on the program.

Workshop Highlights

This two-day ANSYS training workshop provided participants with a comprehensive blend of theoretical knowledge and practical experience, fostering a deeper understanding of: ANSYS Software Fundamentals and CFD Analysis and Simulation with Improved Understanding, Practical Skills and Enhanced Problem-Solving Abilities:

Courses Mapped: Finite Element Analysis, Mechanical Vibrations, Automotive Engineering, Thermal Engineering.

Outcomes :

- Summarize **comprehensive understanding** of ANSYS software and its applications in engineering simulations.
- Apply ANSYS tools to perform structural, thermal, and fluid simulations in practical scenarios
- Analyze **problem-solving skills** to troubleshoot common engineering challenges through simulations.

- Explore **practical knowledge** in computational analysis, bridging the gap between theoretical learning and real-world applications.
- Integrate both faculty and students to ANSYS-based simulations into academic projects, research, and industry-relevant applications.
- Create models during the ANSYS hands-on training using various ANSYS modules such as **ANSYS Mechanical**, **ANSYS Fluent**, and **ANSYS Thermal**.



Parents Teacher Conclave (PTC)



Dr. Vijay Talodhikar offering flower to **photo of Lord Saraswati**

Parents and Staff during inauguration of Program

Aim: To convey academic records, activities, behavior and results of students.

Objective:

- 1. To establish rapport between HoD, Teacher, Students& Parents.
- 2. To establish a positive and open line of communication between parents and teachers.
- 3. To share information with parents about the curriculum, instructional approaches, and other classroom activities.
- 4. To identify any challenges, the student may be facing, whether academic or social-emotional.

Program Details :

The Parents Teacher Conclave for Mechanical Engineering students of IVth , VIth and VIIIth semester (Autonomous) was scheduled on 15-02-2025 (Saturday) between 11.00am to 3.000pm to discuss about Department activities, student progress and performance.

First phase of PTC began at central-level at JRD Tata hall. Hon. Principal Dr. P. L. Naktode gave the opening remark and motivated the students. Gold medals and certificates were distributed to First toppers of Winter-2024 End Semester Examination from all departments. Parent representative guests Shri. Ramdas Chafekar (ECE) and Ms. Priyanka Dhabarde (Civil) along with few other parents came forward and shared their views about college and it's Teaching Methodologies.

Second phase of PTC was conducted at Mechanical Engineering department Smart Class, II floor. Mechanical Engineering Department.It began with the traditional lamp lighting & Opening remarks by HoD (ME) - Dr. Vijay Talodhikar . He informed the parents regarding academic achievement and Department Policy.and another session for one-to-one interaction with the parents and discussed their issues.2nd & 3rd toppers of ESE exam were felicitated with Silver & Bronze medals along with certificate. This was followed by CT-1 exam result display, Cumulative Attendance display and Parent-Mentor wise discussion. Course coordinators also had discussion with parents.

Outcomes:

One to One Interaction between Parents and Teachers. Discussion was focused on student's specific strengths and weakness in individual subjects, various activities performed at department, administration and academics activities at department and institute level. Parents also expressed their gratitude regarding the care taken by the institute for the Growth of the students.

Event

Alumni Meet and Holi Milan 2k25



Alumni Meet & HoliMilan–13th March2025 Venue: TGPCET Campus Organized by: Alumni Association of TGPCET In Association With: Department of Mechanical Engineering

The Alumni Association of TGPCET, in collaboration with the Department of Mechanical Engineering, organized the Alumni Meet & Holi Milan on 13th March 2025. The event aimed to reconnect alumni with their ammeter while fostering meaningful dialogue around academic progress, student development, and institution.

Alumni engaged in interactive sessions with faculty and mentors, sharing insights, offering suggestions, and reflecting on their experiences. The event also focused on the department's upcoming NBA accreditation, with alumni contributing valuable feedback on academic and infrastructural improvements.

Highlight so the event included the recognition of top-performing students, discussions on curricular and co-curricular enhancement, and proposals for future alumni-led initiatives. The celebration of Holi added a festive touch, symbolizing unity, and new beginnings.

Program Outcomes Mapped: PO8 (Ethics), POG (Teamwork), PO10 (Communication)

GAERFEST 2k25 A National Level Technical Event

Aim:- To provide a national-level technical platform for students from diverse academic backgrounds to showcase their innovative ideas, technical acumen, and creative abilities, while fostering innovation, collaboration, and skill development.

Objective:-

1. To foster innovation, technical knowledge, and creativity among young minds.

2. To provide a competitive yet collaborative environment for technical skill development.

3. To promote interdisciplinary learning and collaboration.

- 4. To offer students a chance to showcase their projects, models, and technical awareness.
- 5. To enhance leadership, teamwork, and presentation skills among participants.

Program Details:-

The Department of Mechanical Engineering successfully organized a National-Level Technical Event titled "GAERFEST 2K25" on 16th April 2025. The event aimed to provide a dynamic platform for students from diverse academic backgrounds—including diploma, science, and engineering streams—to showcase their innovative ideas, technical acumen, and creative abilities. The event commenced with a warm welcome extended to the Chief Guest, Mr. Pramod Nichat, CEO of Nichat Motors, by Dr. Mukul Pande, Director of Information Technology. In his insightful address, Mr. Nichat emphasized several key themes relevant to students' academic and professional development. He highlighted the value of time as a crucial resource and stressed the importance of continually acquiring new skills to remain competitive in today's fast-evolving technological landscape. Moreover, he underlined the significance of professional behaviour and respectful conduct, encouraging students to maintain a positive and courteous attitude in all interactions. The event was a great success and served as a meaningful opportunity for students to engage with industry leaders, enhance their technical knowledge, and gain valuable insights for their future careers.

Activity Conducted:-

S. No.	Activity	Description		
1	CAD Model Competition	Designing and presenting innovative 3D mechanical models using CAD software.		
2	Quiz Competition	A technical quiz assessing participants' knowledge in mechanical, general engineering, and innovation trends.		
3	Poster Competition	Designing posters on emerging technological themes like AI in Manufacturing, Sustainable Engineering, etc.		
4	Project Competition	Presentation of innovative prototypes, research models, and engineering solutions.		
5	E-Sport Competition	A gaming contest promoting strategy building, quick decision-making, and stress management skills.		

Outcome of the Event:-

Participation: Over 225participants from in-house and outhouse organization.

Skills Enhanced: Technical design, analytical thinking, creativity, leadership, teamwork, and communication.

Feedback: Overwhelmingly positive feedback highlighting event organization, quality of activities, and expert interaction.

Recognition: Winners were awarded certificates, trophies, and cash prizes to encourage further innovation



Farewell- 2K25

Aim: - The aim of the Farewell function is to bid a warm and heartfelt goodbye to the final-year

Students, recognizing their achievements, celebrating their journey through the years, and

Wishing them success as they step into the next phase of life.

Objectives:-

1. The objective of a farewell function is to celebrate their achievements, acknowledge their contributions to the community, and wish them well in their future endeavors &a time to honor their journey, bid them farewell, and create lasting memories

2. To honor and appreciate the contributions and achievements of the final-year students throughout their academic journey.

3. To celebrate memories and strengthen the bond between juniors and seniors through a joyful and Respectful send-off.

4.To inspire and motivate outgoing students as they transition into professional life and new beginnings.

5.To express gratitude and wish the final-year students success, happiness, and growth in their future endeavors.

Program Details :-

Department of Mechanical Engineering of Tulsiramji GaikwadPatil College of Engineering and Technology, Nagpur (TGPCET) have organized a farewell Function- 2K25 for the students of final year batch 2024-25 on 17.04.2025 at the amphitheatre, TGPCET, Nagpur. This event was organized for final year students who passed out from the institute. Total more than 120 Students have attended this programwhich was hosted by the 2nd year and 3rd year student's collaboration.

About the Program:

of Mechanical Engineering has organized a grand farewell for the final year Students of Tulsiramji Gaikwad-Patil College of Engineering & Technology Nagpur at Amphitheatre, Nagpur. The event was begun with the addressing of gathering by head of the department Dr. Vijay Talodhikar and floral welcome of all final year students. Dean IQAC commented on speech that remember to apply the knowledge and skills you've acquired to make a meaningful impact in your chosen fields. Stay curious, stay innovative, and stay

committed to excellence.

Dean Academic commented on speech that your time here has been a foundation for your future success, and we're proud of the individuals you've become.

The students were also felicitated with a memorable memento as token of love. The event was full of activities like games, singing, raps, rapid fire & other cultural activities for pass out students. The students have shared their experiences and memories of their engineering journey.

Farewell

FarewellParty2k25



Message from the Department

Dear Final-Year Students,

As you prepare to embark on your next chapter, the entire ME family takes this moment to salute your hard work, achievements, and spirit. You have grown into engineers ready to innovate, lead and contribute to society.

Your journey at TGPCET may be ending, but our best wishes will follow you wherever life takes you. Keep pushing boundaries, stay curious and never forget your roots.

You're always apart of the ME family.

With pride and blessings,

Faculty Achievements

Sr. No.	Name of Students	Course	Position/Remark	Organized by / Date of Conduction
1	Prof. L Chaitanya Maddila NATE		Elite Certification	NPTEL/SWAYAM
2	Prof.Ravindra Shende	NATE	Certificated	NPTEL/SWAYAM
3	Prof.Dipali Bhoyar	NATE	Elite Certification	NPTEL/SWAYAM
4	Prof.Ravindra Shende	NATE	Elite Certification	NPTEL/SWAYAM



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Students Placement						
Sr. No. Name of Student		Gender	Branch	Company Name		
1	Aniket Singh	М	ME	Lloyds Infrastructure and Constructions		
2	Akash Choudhari	М	ME	Sanvijay Groups		
3	Khumesh Baghele	М	ME	Sanvijay Groups		
4	Pratik Taiwade	М	ME	Sanvijay Groups		
5	Rutvik Dhage	М	ME	Sanvijay Groups		
6	Suhas Dhone	М	ME	Sanvijay Groups		
7	Linesh Giradkar	М	ME	Sanvijay Groups Seva Automative Pvt Ltd, Nagpur		
8	Sagar Pohane	М	ME	Seva Automative Pvt Ltd, Nagpur		
9	Utkarsh Kusrame	М	ME	Seva Automative Pvt Ltd, Nagpur		
10	Atulesh Patil	М	ME	Sunmarc Paper Industry Pvt Ltd, Nagpur		
11	Pranay Darne	М	ME	Sunmarc Paper Industry Pvt Ltd, Nagpur Sanvijay Groups		
12	Tanay Singh	М	ME	Sunmarc Paper Industry Pvt Ltd, Nagpur Sanvijay Groups		
13	Mayur Palasram Varhokar	М	ME	Megha Enginering and Infrastrcturen Ltd		
14	AKASH MOURYA	М	ME	Lloyds Infrastructure and Constructions		
15	SHUBHAM LILHARE	М	ME	Lloyds Infrastructure and Constructions		
16	Sahil Ghodmare	М	ME	RR Cables		
17	Sarthak Khobragade	М	ME	RR Cables		
18	Saurabh Nishad	М	ME	RR Cables		
19	Karan Jibhakate	М	ME	Spark Minda		
20	Chandrashekhar Pardhi	М	ME	Spark Minda		

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Two Day CFD Simulation using ANSYS Workshop in Mechanical Engineering of							
TGPCET Nagpur							
Sr. No	Name of Event	Date of Event	Name of Participant	Category of Event			
1		24-03-2025 & 25-03-2025	ARPITA RAVINDRA KHANZODE	Department Level			
2	1	24-03-2025 & 25-03-2025	RAJSHRI DILIP PATIL	Department Level			
3	1	24-03-2025 & 25-03-2025	RUCHIKA PRAMOD NARAD	Department Level			
4	1	24-03-2025 & 25-03-2025	SANJANA BABLU AJIT	Department Level			
5	1	24-03-2025 & 25-03-2025	SHRUTI NAMDEO BAWANE	Department Level			
6	1	24-03-2025 & 25-03-2025	ABHISHEK SINGH	Department Level			
7		24-03-2025 &25-03-2025	ADITYA MAHENDRA RAHANGDALE	Department Level			
8		24-03-2025 & 25-03-2025	AMAN SUBHASH KUMBHALKAR	Department Level			
9	1	24-03-2025 & 25-03-2025	AMIT GAJANAN DESHMUKH	Department Level			
10		24-03-2025 &25-03-2025	ANUKUL SUNIL KAPSE	Department Level			
11		24-03-2025 &25-03-2025	ATHARVA DNYANESHWAR DUBEY	Department Level			
12	Two Day CFD Simulation	24-03-2025 & 25-03-2025	AYURKUMAR PRAMOD SONULE	Department Level			
13	using ANSYS Workshop	24-03-2025 &25-03-2025	DARSHAN DILIP GAIDHANE	Department Level			
14	CAD & CAE SALL RESOURCE DEVELOPMENT CENTRE	24-03-2025 & 25-03-2025	HIMANSHU ANIL WALTHARE	Department Level			
15	CERTIFICATE	24-03-2025 & 25-03-2025	JITENDRA AMRITLAL YADAV	Department Level			
16	of Completion	24-03-2025 &25-03-2025	LOCHAN BARIKRAO NIMAJE	Department Level			
17	Skill India This is to certify that	24-03-2025 & 25-03-2025	MAYUR SANJAY DHENGALE	Department Level			
18	THE AND ACCOUNT AND A STATE AN	24-03-2025 & 25-03-2025	MAYUR SUNIL DHABAI	Department Level			
19	Drganized by G20 Innovation, Plane at "fusionamy Galiowad Pac- College of Engineering and Technology	24-03-2025 & 25-03-2025	MOHIT DULIRAM GEDAM	Department Level			
20	COVERNMENT OF NDA MICROCOMMA LOTALA HAT 34 0000014	24-03-2025 & 25-03-2025	NIKESH REKCHAND BOPCHE	Department Level			
21		24-03-2025 & 25-03-2025	OMKAR ARUN NAWGHADE	Department Level			
22	ISOBELINATION Pure Calego of Degiments and inter-	24-03-2025 & 25-03-2025	PANKAJ GAJANAN NAGPURE	Department Level			
23	Workshop Certificate	24-03-2025 & 25-03-2025	PARAS CHUNNILAL GOTEPHODE	Department Level			
24		24-03-2025 &25-03-2025	PRANAY SURESH NINAWE	Department Level			
25	1	24-03-2025 & 25-03-2025	PRAVIN AVINASH PRADHAN	Department Level			
26	1	24-03-2025 & 25-03-2025	RAUNAK RANVIR YADAV	Department Level			
27	1	24-03-2025 & 25-03-2025	ROHIT HITESH DHONE	Department Level			
28	1	24-03-2025 &25-03-2025	SAHIL CHARAN BHOVATE	Department Level			
29	1	24-03-2025 &25-03-2025	SAIKIRAN BAPU GANTA	Department Level			
30]	24-03-2025 &25-03-2025	SARTHAK SHARAD RAHANGDALE	Department Level			
31	1	24-03-2025 & 25-03-2025	SHUBHAM GANESH SATPUTE	Department Level			
32	1	24-03-2025 &25-03-2025	SHUBHAM KISHOR KAKADE	Department Level			
33	1	24-03-2025 & 25-03-2025	SHUBHAM TUKARAM KAPSE	Department Level			
34	1	24-03-2025 &25-03-2025	SIDDHANT VINOD TIJARE	Department Level			
35	1	24-03-2025 & 25-03-2025	SNEHAL SUNIL SUKHDEVE	Department Level			

Department in Media 2024-25



A News of Guest Lecture on "Shop Floor Management" Organized by Mechanical Engineering Department of TGPCET Nagpur Published in Loksatta on dated 07-03-



"The future belongs to those who believe in the beauty of their dreams." — Eleanor Roosevelt

This newsletter reflect say ear of growth, learning and unity. As we close this chapter, we look forward to continuing our journey with renewed purpose and passion.

To every contributor, participant and supporter thank you for making this academic session extraordinary.

We remain committed to excellence, innovation, and holistic development.

Editorial Team Department of Mechanical Engineering TGPCET, Nagpur

SESSION 2024-2025