# DEPARTMENT OF AERONAUTICAL ENGINEERING

(Newsletter-2025-26) Vol-01, Issue-01

# "AAROHAN"

GAIKWAD-PATIL GROUP OF INSTITUTIONS

## 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 to the students and staff members by inculcating knowledge and profession as work practices.*

# VISION AND MISSION OF THE DEPARTMENT

## VISION

- *To foster technically skilled Aeronautical Engineers of the utmost academic principles, to convene the needs of academia, industry and society.*

## MISSION

- *Impart quality technical education and unique interdisciplinary experiences.*
- *Develop the analytical, computational and design capabilities to provide sustainable solutions.*
- *Expose the students to the current trends and opportunities in the Aerospace industry.*
- *Inculcate professional responsibility based on anninate, ethical value system.*

## PROGRAMEDUCATIONALOUTCOMES

- *Under graduate students will acquire knowledge to investigate and solve Aeronautical Engineering problems using basics of applied science and engineering.*
- *Under graduate students will utilize the modern technology and techniques to explore new skills and ideas to satisfy the need of society as well as industry.*
- *Under graduate students will get finest employment opportunities in the field of Aeronautical Engineering.*
- *To develop the environment of societal and ethical values to concern with engineering issues.*
- *Under graduate students will contribute in the domain-specific and inter-disciplinary research through the project based learning.*

## PROGRAMOUTCOMES

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

- ***The engineer and society:*** *Apply reasoning in formed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.*
- ***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.*
- ***Ethics:*** *Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.*
- ***Individual and team work:*** *Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.*
- ***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.*
- ***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.*
- ***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 TGPCET

Tulsiramji Gaikwad-Patil College of Engineering and Technology (TGPCET) was established in the year 2007 by Vidarbha Bahu-uddeshiya Shikshan 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, Maharashtra State. The Institute is Accredited with A+ (3.32 CGPA) by NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL (NAAC). An Autonomous Institute affiliated to RTM Nagpur University, Nagpur. Four departments (EE, ME,CE & ECE) of Tulsiramji Gaikwad-Patil College of Engineering and Technology (TGPCET) are accredited by the National Board of Accreditation (NBA), reflecting the institution's commitment to quality education and academic excellence.

# About Aeronautical Engineering Department

The Department of Aeronautical Engineering was established in 2020 with an intake of 60 students in the UG course. The department has also started a PG program in Aeronautical Engineering with an intake of 12 in the year 2023. Aeronautical engineering involves researching, designing, constructing, testing, and manufacturing of the aircraft within Earth's atmosphere. It also covers the investigation into aerodynamic elements of aircraft, including behaviors and related factors such as control surfaces, lift, airfoil, and drag. The Department aims to cultivate expertise in specialized fields within aeronautical engineering, including aircraft structural design, aerodynamics, propulsion systems, and guidance and control systems, with an emphasis on research and innovation.

The aeronautical engineering department features several specialized labs: Aero-Thermodynamics Lab, Fluid Mechanics and Machinery Lab, Aerodynamics Lab, Aircraft Structures Lab, Propulsion Lab and CAD/CAE Lab, offering students hands-on experience in advanced research and practical applications. The department has well qualified and experienced faculties from IITs, NITs and Government institutes having excellent academic as well as research contribution. The aeronautical engineering department offers a vibrant and enriching environment for students.

The student-run Aerocious forum hosts guest lectures and workshops, while the drone club organizes competitions and projects, providing opportunities for practical experience and fostering innovation in drone technology and applications. The department encourages students to engage in research and publish papers. They are also motivated to participate in international and national conferences, providing them with valuable opportunities to present their work, network with industry professionals, and stay informed about the latest advancements in the field.

# MESSAGE

**Dr. MOHAN GAIKWAD-PATIL**
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 Vidarbh. 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 constants 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.*

**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 institutions 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 one's personality. This institution provides an environment for nurturing these 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 Bedekar**
Vice Principal

*Albert Einstein said, "Education is not about learning of facts but training young minds to think." There is a big difference between cramming up 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 values align with my own personal values, including the importance of trust, respect, innovation and a sense of community.*

# HoD Desk

It is with great pleasure and enthusiasm that I extend a warm welcome to each of you as we embark on yet another exciting edition of "Aeronautica Insight," the official magazine of the Aeronautical Engineering Department at TGPCET, Nagpur.

As the Head of the Aeronautical Engineering Department, I take immense pride in presenting this platform that encapsulates the spirit, achievements, and aspirations of our vibrant department. "Aeronautica Insight" serves as a window into the world of aeronautical innovation, academic prowess, and collaborative endeavors that define our department's identity.

Aeronautical Engineering is a field that thrives on the pursuit of knowledge and the relentless quest for pushing the boundaries of what is possible. In this edition, we showcase the academic excellence achieved by our students and faculty, both in the classrooms and through groundbreaking research initiatives. From theoretical concepts to real-world applications, we aim to provide our readers with a comprehensive view of the dynamic field of Aeronautical Engineering.

Our faculty members, who are not only educators but also mentors and guides, play a pivotal role in shaping the academic journey of our students. Through their dedication and expertise, they inspire a love for learning and foster an environment where curiosity and critical thinking are celebrated.

"Aeronautica Insight" also highlights the numerous extracurricular activities, workshops, and events that contribute to the holistic development of our students. We believe in nurturing well-rounded individuals, and this magazine reflects them myriad talents and achievements of our students beyond the academic realm.

Collaboration lies at the heart of innovation, and we are proud to showcase the partnerships and collaborations that our department has forged with industry leaders, research institutions, and alumni. These collaborations not only provide valuable opportunities for our students but also contribute to the advancements in aerospace technology.

I extend my gratitude to the editorial team for their tireless efforts in curating this magazine, and to all contributors for sharing their insights and experiences. "Aeronautica Insight" is not just a publication; it is a testament to the collective spirit and achievements of the Aeronautical Engineering Department at TGPCET.

I encourage all readers to delve into the pages of this magazine, explore the stories within, and gain a deeper understanding of the exciting world of Aeronautical Engineering. May this edition inspire you, inform you, and spark your curiosity. Wishing you an enlightening and enjoyable reading experience!

**Prof. Vishwjeet Ambade, B.E., M-Tech, PhD*.**

**Assistant Professor and Head of Department**

# Editor Desk

Welcome to the latest edition of "Aeronautica Insight," the heartbeat of the Aeronautical Engineering Department at TGPCET. As editors, it is our privilege to present a tapestry of narratives that reflect the dynamic and ever-evolving nature of aerospace technology and the collective spirit of our academic community.

In the realm of Aeronautical Engineering, where innovation meets precision, every project is a journey, every challenge is an opportunity, and every discovery is a triumph. As you flip through the pages of this magazine, we invite you to embark on a journey with us—an exploration of the frontiers of aerospace science and engineering.

Our contributors, adverse and talented group of individuals, have poured their passion in to these pages. From insightful research articles to captivating stories of personal experiences, each piece offers a unique perspective on the multifaceted world of Aeronautical Engineering. We extend our sincere gratitude to these individuals for sharing their expertise, shedding light on complex concepts, and bringing them magic of aviation to life.

At the heart of our department is a community of dedicated faculty, staff, and students who work tirelessly to push the boundaries of knowledge. "Aeronautica Insight" is a celebration of their achievements, a showcase of their collaborative efforts, and a testament to the pursuit of excellence that defines our academic environment. We believe in nurturing not only skilled engineers but also creative thinkers, problem solvers, and leaders who will shape the future of aerospace technology.

This magazine is more than just a compilation of articles; it is a reflection of our commitment to fostering a holistic learning experience. Beyond the classroom, we highlight the extracurricular activities, workshops, and events that contribute to the all-encompassing development of our students. It is in these diverse experiences that future leaders in Aeronautical Engineering are forged.

As editors, we would like to express our gratitude to the entire editorial team for their dedication and hard work. Designers, writers, photographers—each played a crucial rol0- bringing this publication to life. Their creative efforts have given "Aeronautica Insight" a visual and narrative richness that we hope you will find engaging and inspiring.

To our readers, we extend an invitation to immerse yourselves in the stories within these pages, to explore the challenges and triumphs, and to share in the excitement of Aeronautical Engineering. Thank you for being a part of our journey, and we hope you find this edition of "Aeronautica Insight" both informative and enjoyable.
Happy reading!

**Prof. Jonna Naresh**
**BE. ,M-Tech PhD***

# Editorial Committee

HOD OF AERONAUTICAL ENGINEERING DEPARTMENT

PROF.VISHWJEETAMBADE

**Chief Editor**

**PROF. JONNA NARESH**
**Assistant Professor**

**Co -Editor**

**PROF. HIMANI HARPAL**
Assistant Professor

**Member**

**PROF. SHRIKANT KATHWATE**
Assistant Professor

**Member**

**PROF. MAYURI WANDHARE**
Assistant Professor

# Student Editorial Board Member

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Miss. Dnyanshwari Wanjal (Vice- President)

Mr. Pratik Patmase (Secretary)

Mr. Aadi Raut (Treasurer)

Miss. Ishwari Ninave (Event Member)

Mr. Sushil Suryawanshi (Techanical Member)

Mr. Piyush Bansod (Media Member)

Miss Mayuri Damke (Cultural Member)

Miss Arpita Kumbhalkar (Sports Member)

Miss. Jijau Ravte (Discipline member)

Mr. Makrant Kamble(Discipline member)

# *Index*

# Summery Table of Guest Lecture

| No. of Guest Lecture | Topic | Date |
|---|---|---|
| 1. | Guest Lecture on aircraft maintenance and the transition from campus to industry readiness | 11th August 2025 |
| 2. | Guest Lecture on Drone Technology and its Future Scope in Defence | 12thAugust 2025 |
| 3. | Guest Lecture on Aircraft Maintenance, Repair and Overhaul (MRO) – Industry Practices and Challenges | 29 August 2025 |
| 4. | Guest Lecture on “A Roadmap to Industry Readiness: Technical Interviews and Employability Skills” | 19 December 2025 |

# GUEST LECTURE

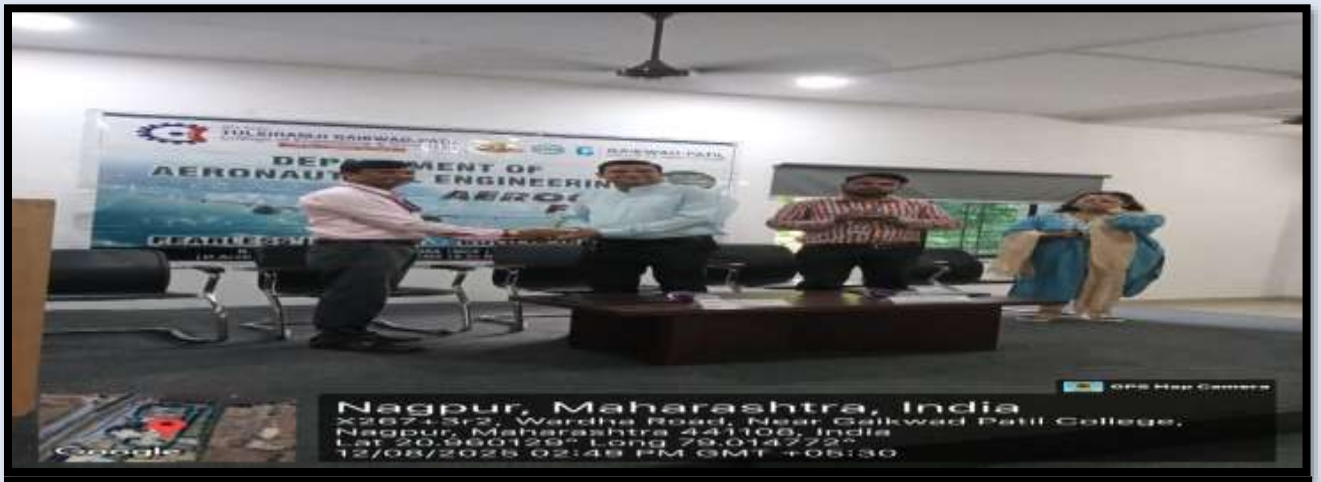
**Guest Lecture on aircraft maintenance and the transition from campus to industry readiness.**

| | |
|---|---|
| Date | 11th August 2025 |
| Venue | Department of Aeronautical Engineering, TGPCET, Nagpur |
| Organized By | Department of Aeronautical Engineering |
| Guest Name & Designation | Miss Gautami Baisane, Junior Technician at INDMER, Nagpur |
| Purpose of Event | To provide the guidance on career pathways in Aeronautical engineering, particularly on aircraft maintenance and the transition from campus to industry readiness. |
| Student Participation | 70+ Students actively participated |

# GUEST LECTURE

## Guest Lecture on Drone Technology and its Future Scope in Defence

| | |
|---|---|
| Date | 12th August 2025 |
| Venue | Department of Aeronautical Engineering, TGPCET, Nagpur |
| Organized By | Department of Aeronautical Engineering |
| Guest Name & Designation | Dr. Gaurav Dhingra, Manager – Technical Services, Indamer Technics Private Limited, MIHAN SEZ, Khapri, Nagpur |
| Purpose of Event | To provide the guidance on career pathways in Aeronautical engineering, particularly Guest Lecture on Drone Technology and its Future Scope in Defense |
| Student Participation | 60+ Students actively participated |




# GUEST LECTURE

**Guest Lecture on Aircraft Maintenance, Repair and Overhaul (MRO) – Industry Practices and Challenges**

| | |
|---|---|
| Date | 29 August 2025 |
| Venue | Department of Aeronautical Engineering, TGPCET, Nagpur |
| Organized By | Department of Aeronautical Engineering |
| Guest Name & Designation | Mr. Ujwal Bambel, Deputy Quality Manager, Indamer Technics Private Limited, Nagpur |
| Purpose of Event | To provide the guidance on career pathways in Aeronautical engineering, particularly Guest Lecture on Aircraft Maintenance, Repair and Overhaul (MRO) – Industry Practices and Challenges" was organized with the primary objective of enhancing the academic learning of students through expert knowledge sharing and industry exposure. |
| Student Participation | 60+ Students actively participated |


# GUEST LECTURE

**Guest Lecture on "A Roadmap to Industry Readiness: Technical Interviews and Employability Skills"**

| | |
|---|---|
| Date | 19/12/2025 |
| Venue | Department of Aeronautical Engineering, TGPCET, Nagpur |
| Organized By | Department of Aeronautical Engineering |
| Guest Name & Designation | **Mr. Piyush Chilbule**, Founder and Trainings Head– Mechazu Industrial Solution, Nagpur |
| Purpose of Event | The expert lecture on "A Roadmap to Industry Readiness: Technical Interviews and Employability Skills "proved to be highly informative and enriching for the students. The session provided participants with technical interview patterns, expectations, and evaluation criteria used by industries. The interaction with the industry expert **Mr. Piyush Chilbule** helped bridge the gap between theoretical knowledge and practical applications, while also motivating students to explore career opportunities and continuous learning in aviation and aerospace domains. |
| Student Participation | 70+ Students actively participated |


# Summery Table of Industrial visit

| No. of Industrial Visit | Topic | Date |
|---|---|---|
| 1. | Industrial Visit to “Aerovania Pvt. Ltd. , Nagpur | 19 July 2025 |
| 2. | Industrial Visit at Raymond Limited, Sausar, Madhya Pradesh | 13 September 2025 |
| 3. | Industrial Visit at KEC International Ltd. Butibori, Nagpur | 12 December 2025 |

# INDUSTRIALVISIT

## Industrial Visit to "Aerovania Pvt. Ltd., Nagpur"

| | |
|---|---|
| Title: | Industrial Visit to "Aerovania Pvt. Ltd. , Nagpur" |
| Aim: | To provide students with an in-depth understanding of the application of composite materials, natural fire-resistant fibers, and synthetic fibers in drone manufacturing.. |
| Summary Paragraph: | The Department of Aeronautical Engineering organized an industrial visit to ***Aerovania Pvt. Ltd., Nagpur*** **on 19 July 2025** for B.Tech. Aeronautical Engineering students of 4th and 6th semesters. The visit aimed to provide practical exposure to the application of composite materials, natural fire-resistant fibers, and synthetic fibers in drone manufacturing. Students were introduced to advanced manufacturing techniques such as pre-prig technology and vacuum bagging, and they observed practical UAV models used in defense, agriculture, and logistics. The visit effectively bridged the gap between theoretical knowledge and industrial practices, enhancing students' understanding of modern tools, sustainable materials, and real-world engineering challenges. It contributed to the attainment of various Program Outcomes (POs) and Program Specific Outcomes (PSOs), particularly in engineering knowledge, problem analysis, design skills, sustainability, teamwork, and lifelong learning, thereby enriching students' technical competence and professional awareness in the field of UAV and aeronautical engineering. |
| Outcome | Students gained practical knowledge of composite, natural fire resistant, and synthetic fibers in drone manufacturing. Students learned advanced manufacturing process like pre - prep technology and vacuum bagging Students observed and analyzed working drone models Students understood the importance of fire resistant materials for drone safety and sustainability |

# INDUSTRIAL VISIT

## Industrial Visit at Raymond Limited, Sausar, Madhya Pradesh.

| | |
|---|---|
| Title: | Industrial Visit at Raymond Limited, Sausar, Madhya Pradesh. |
| Aim: | To understand the textile and garment manufacturing process from raw material to finished product.<br>To gain knowledge about modern machinery, technology, and automation used in textile industries.<br>To observe quality control measures and standards maintained in fabric production. |
| Summary Paragraph: | The Department of Aeronautical Engineering, TGPCET, Nagpur organized an industrial visit to **Raymond Limited, Sausar, Madhya Pradesh** on **13 September 2025** for 5th semester students. A total of **15 students** participated under the coordination. The visit was planned to enhance academic learning by providing direct exposure to industrial practices and manufacturing environments. During the visit, students gained firsthand knowledge of **textile and garment manufacturing processes**, including the use of modern machinery, automation, and quality control systems followed by Raymond Limited. The program also aimed to encourage students to relate theoretical concepts with practical industrial applications, understand problem-solving approaches in industry, and appreciate the role of emerging technologies in modern manufacturing. |
| Outcome | Students gained practical knowledge of textile and garment manufacturing processes. Understood the functioning of modern machinery, automation, and production technology Observed real-time quality control methods and industrial safety practices. |

# INDUSTRIAL VISIT

| | |
|---|---|
| Title: | Industrial Visit at KEC International Ltd. Buttibori, Nagpur |
| Aim: | This industrial visit bridges the gap between classroom learning and real-world applications by showcasing advanced project management, sustainability initiatives, and global business strategies of a leading infrastructure organization. |
| Summary Paragraph: | The Department of Aeronautical Engineering organized an industrial visit to **KEC International Ltd., Buttibori, Nagpur** on **12 December 2025** for **44 B.Tech. Aeronautical Engineering students**. The visit aimed to provide practical exposure to large-scale infrastructure development and EPC (Engineering, Procurement & Construction) practices adopted by a global organization. During the visit, students gained insights into KEC's operations in **Power Transmission and Distribution, Cables, Railways, Water, and Renewable Energy sectors**. They observed modern manufacturing processes, advanced machinery, quality control systems, and project management practices. The visit helped students understand sustainability initiatives, safety standards, and global business strategies relevant to multidisciplinary engineering fields. |
| Outcome: | • Students gained practical exposure to large-scale EPC (Engineering, Procurement and Construction) projects and understood their relevance to multidisciplinary engineering fields.<br>• Students developed an understanding of power transmission systems, cabling, and distribution networks that support industrial and aviation-related infrastructure.<br>• Students learned modern project management, quality assurance, and safety practices applicable to complex engineering projects. |

# Induction Program

| | |
|---|---|
| Title: | **Induction program for 3rd semester students** |
| Aim: | To orient and equip 3rd semester Aeronautical Engineering students with the academic, technical, and professional expectations of their core program, fostering a smooth transition into departmental courses while nurturing discipline-specific identity, teamwork, and career readiness |
| Summary Paragraph: | The Induction Program for the 3rd semester students of the Aeronautical Engineering Department began with the traditional lighting of the lamp ceremony, symbolizing knowledge, wisdom, and the start of a new academic journey. This auspicious ritual was performed to invoke positivity and enlightenment as the students embark on the core phase of their studies. The event was smoothly anchored by **Miss Himani Harpal**, who guided the audience through the program with confidence and clarity. The ceremony was followed by a **motivational speech** from **Mr. Jonna Naresh**, the In-Charge-Head of the Department. Mr. Naresh emphasized the importance of dedication, perseverance, and a proactive approach towards learning and innovation in the field of aeronautics. He encouraged students to develop a strong foundation in both theoretical and practical aspects and to make the most of the departmental resources and opportunities |
| Outcomes: | 1. Students gain a clear understanding of the academic curriculum, examination patterns, and departmental expectations.<br>2. Students are motivated to approach their studies with enthusiasm, discipline, and a growth mindset. Awareness about training, internship, and placement opportunities in the aeronautical industry is enhanced. |

# STUDENT ACTIVITY

## Photos of Inauguration of Aircraft Model (Bell P-39 Air cobra)


**11 dedicated students** have successfully designed and fabricated a detailed **aircraft model of the Bell P-39 Airacobra**, which has now been **inaugurated and displayed on the college campus**. This initiative reflects the students' strong technical skills, teamwork, and passion for aeronautical engineering. The model serves as an educational exhibit, inspiring fellow students and showcasing the department's commitment to hands-on learning, innovation, and practical application of engineering concepts.

# STUDENT ACHIEVEMENTS


he Department of Aeronautical Engineering is proud to share that one of its students has achieved notable recognition at the **99th Akhil Bharatiya Marathi Sahitya Sammelan, Satala**, for excellence in literary contribution (Kavikutya). This achievement highlights the student's multifaceted talent and reflects the department's encouragement of holistic development, where technical education is complemented by cultural and creative excellence. The institute congratulates the student on this distinguished accomplishment and wishes continued success in both academic and extracurricular pursuit

| Name of Student | Department | Event | Venue | Contribution |
|---|---|---|---|---|
| Nitesh Kharole | Aeronautical Engineering | 19th Akhil Bharatiya Sahitya Sammelan | New Delhi | Presented a literary work on *"Patriotism and the Role of Youth"* |

# STUDENT ACHIEVEMENTS



**Student participation certificate**

# STUDENT ACHIEVEMENTS

NAAC Accredited
TULSIRAMJI GAIKWAD-PATIL College of Engineering & Technology
An Autonomous Institute
GAIKWAD-PATIL GROUP OF INSTITUTIONS

CERTIFICATE
OF APPRECIATION

*This certificate is proudly awarded to*

Mr/Ms. Sagar Karlkar Student of TGPCET, Nagpur

*Has actively participated in the* ***National Level Event ELECTROKRAT 2K25****, organized by the Electronics & Communication Engineering Department, TGPCET, Nagpur, on* ***April 3rd & 4th, 2025.***

*Competed in* ***Science Project / Breadboard / Technical Quiz / Technical Poster / E-Sports (Gaming)***

*and secured* ***First / Second / Third*** *place or received a* ***Participation*** *Certificate."*

Prof. Amol Dhenge / Prof. Suraj Mahajan
Co-ordinators

Prof. Rohini Pochhi
HOD, ECE

Dr. Pragati Patil
Vice-Principal

Dr. Premanand Naktode
Principal

## Student participation certificate

GAIKWAD-PATIL

NAAC Accredited
TULSIRAMJI GAIKWAD-PATIL College of Engineering & Technology
An Autonomous Institute
GAIKWAD-PATIL GROUP OF INSTITUTIONS

CERTIFICATE
OF APPRECIATION

*This certificate is proudly awarded to*

Mr/Ms. Shree Dhatkar Student of TGPCET, Nagpur

*Has actively participated in the* ***National Level Event ELECTROKRAT 2K25****, organized by the Electronics & Communication Engineering Department, TGPCET, Nagpur, on* ***April 3rd & 4th, 2025.***

*Competed in* ***Science Project / Breadboard / Technical Quiz / Technical Poster / E-Sports (Gaming)***

*and secured* ***First / Second / Third*** *place or received a* ***Participation*** *Certificate."*

Prof. Amol Dhenge / Prof. Suraj Mahajan
Co-ordinators

Prof. Rohini Pochhi
HOD, ECE

Dr. Pragati Patil
Vice-Principal

Dr. Premanand Naktode
Principal

# Summery Table of Faculty Achievement

| Sr. No. | Name | Type of certificate |
|---|---|---|
| 1. | Prof. Shrikant Kathwate | NPTEL |
| 2. | Prof. Mayuri Wandhare | NPTEL/ATAL FDP |
| 3. | Prof. Vishwjeet Ambade | Expert in ATAL FDP |
| 4. | Prof. Rupali Mahobiya | Participation in FDP |

# FACULTY'S ACHIEVEMENTS

## Faculty Achievements in NPTEL Online Certification

## Prof. Shrikant Kathwate

| Faculty Name | NPTEL Course Title | Offering Institute | Certification Type | Score |
|---|---|---|---|---|
| Prof. Shrikant Kathwate | Training of Trainers | IIT Roorkee | Pass | 55% |

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

Skill India

This certificate is awarded to

SHRIKANT KATHWATE

for successfully completing the course

Training of Trainers

with a consolidated score of 55 %

| Online Assignments | 24.06/25 | Proctored Exam | 30.75/75 |
|---|---|---|---|

Total number of candidates certified in this course: 1010

Prof. Kaushik Ghosh, Professor(Chemistry) Coordinator CEC

Jul-Oct 2025

(12 week course)

Prof. Ranjana Pathania, Professor (BSBE) Coordinator (NPTEL)

Indian Institute of Technology Roorkee

swayam

# FACULTY'S ACHIEVEMENTS

## Prof. Mayuri Wandhare

| Faculty Name | NPTEL Course Title | Offering Institute | Certification Type | Score |
|---|---|---|---|---|
| Prof. Mayuri Wandhare | Fundamental of Heat Transfer | IIT Kharagpur | Pass | 54% |

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

Skill India

This certificate is awarded to

MAYURI WANDHARE

for successfully completing the course

Fundamentals of Heat Transfer

with a consolidated score of 54 %

| Online Assignments | 23.75/25 | Proctored Exam | 30.5/75 |
|---|---|---|---|

Total number of candidates certified in this course: 128

Jul-Oct 2025

(12 week course)

Prof. Haimanti Banerji

Coordinator, NPTEL

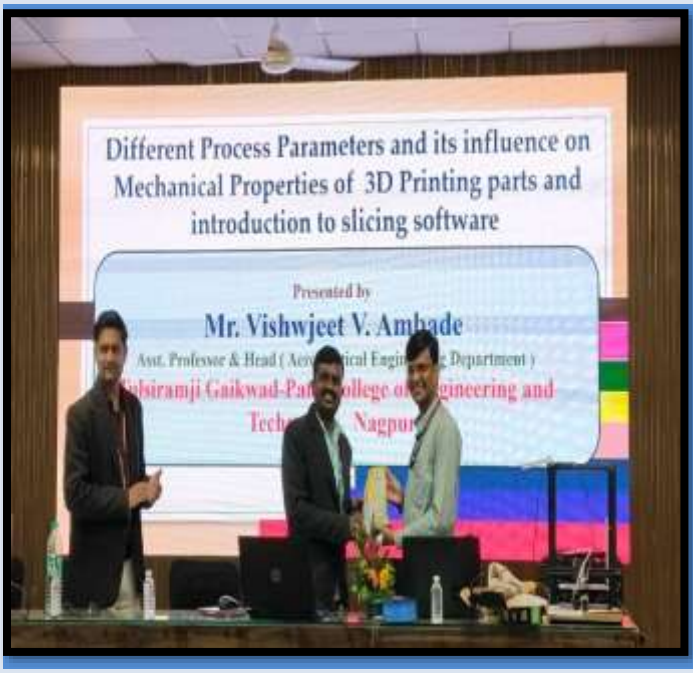
IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL25ME171S1164400249 To verify the certificate No. of credits recommended: 3 or 4

# FACULTY'S ACHIEVEMENTS




**Invited as Expert in ATAL FDP at Malkapur College of Engineering, Malkapur on 10th Oct.2025**


**Invited as Expert in ATAL FDP at Bajaj Chandrapur Polytechnic, Chandrapur on 09th Oct.2025**

# FACULTY'S ACHIEVEMENTS

ATAL/2025/1758778077

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi -110070

AICTE Training and Learning (ATAL) Academy

**Certificate**

*It is certified that* ***Mrs. Mayuri M Wandhare, Faculty members of the AICTE approved Institutions*** *of* ***TGPCET, Nagpur*** *has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on* ***Applications of 3D Printing In Industry*** *at* ***BAJAJ CHANDRAPUR POLYTECHNIC CHANDRAPUR*** *from* ***06/10/2025*** *to* ***11/10/2025.***

Anil P Arewar
Associate Professor Level (AICTE Institute), Coordinator
**BAJAJ CHANDRAPUR POLYTECHNIC CHANDRAPUR**

Dr. Sunil Luthra
Director & Bureau Head
**Training and Learning Bureau, AICTE**

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*It is certified that* ***Mrs. Mayuri M Wandhare, Faculty members of the AICTE approved institutions*** *of TGPCET, Nagpur has successfully participated & completed* ***Conference*** *under* ***AICTE - Vibrant Advocacy for Advancement and Nurturing of Indian Languages (VAANI)*** *on* ***Bharat's Leap in Space & Defense: Atmanirbharta to Global Leadership*** *in* ***Marathi*** *language at* ***PRIYADARSHINI COLLEGE OF ENGINEERING*** *from 12/11/2025 to 14/11/2025.*

Chandrashekhar Nilkanth Sakhale
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**PRIYADARSHINI COLLEGE OF ENGINEERING**

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Chandrashekhar Nilkanth Sakhale
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Dr. Sunil Luthra
Director & Bureau Head
**Training and Learning Bureau, AICTE**


DYP DPU
Dr. D. Y. Patil Institute of Technology, Pimpri, Pune
Department of Mechanical Engineering
Certificate of Participation
This certificate is presented to
Rupali Khilendra Mohabiya
from Tulsiramji Gaikwad Patil College of Engineering and Technology, Nagpur has actively attended One Week National Level Faculty Development Program on "Next-Gen Mechanical Systems: Leveraging AI/ML for Energy Efficiency & Sustainability" from 18th to 22nd August 2025, organized by Department of Mechanical Engineering, Dr. D. Y. Patil Institute of Technology, Pimpri, Pune.
Dr. Chandrika Wagle
Coordinator
Dr. Nitin P. Sherje
Principal & Head of the Mechanical Engineering Department

LOKMAT TIMES

# Aerocious Forum installed

**Nagpur:** The Department of Aeronautical Engineering hosted the Reinstallation Ceremony of the "Aerocious" Forum and "AeSI" Students Chapter at Dr A P J Abdul Kalam Hall, TGPCET. The ceremony commenced with inspiring opening remarks from Prof Naresh Jonna, Forum Incharge, followed by the formal inauguration by Chief Guest Mr. Akash Chitmitwar, Founder of Ozone Aviation India, Nagpur, along with Principal Dr. P. L. Nak-

Guest being welcomed.

tode, Dean IQAC Prof. Ritesh Banpurkar, and other esteemed faculty members. The programme featured a guest lecture by Akash Chitmitwar.

Nagpur First
Page No. 7 Aug 09, 2025
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A News of Aerocious Forum & AeSI Students Chapter Reinstalled at Aeronautical Engineering Department of TGPCET Nagpur Published in Lokmat Times on dated 09-08-2025.

# STUDENTARTICLES

पंख नसतानही उडायचं रवप्न पाहिलं,
गणिताच्या रेशांतून आकाश शोधत राहिलो.
न्यूटनच्या निंयाम्त अर्थ सापडत गेला,
थस्ट, लिपट, ड्रॅगमधे स्वताला हरचून बसलो.

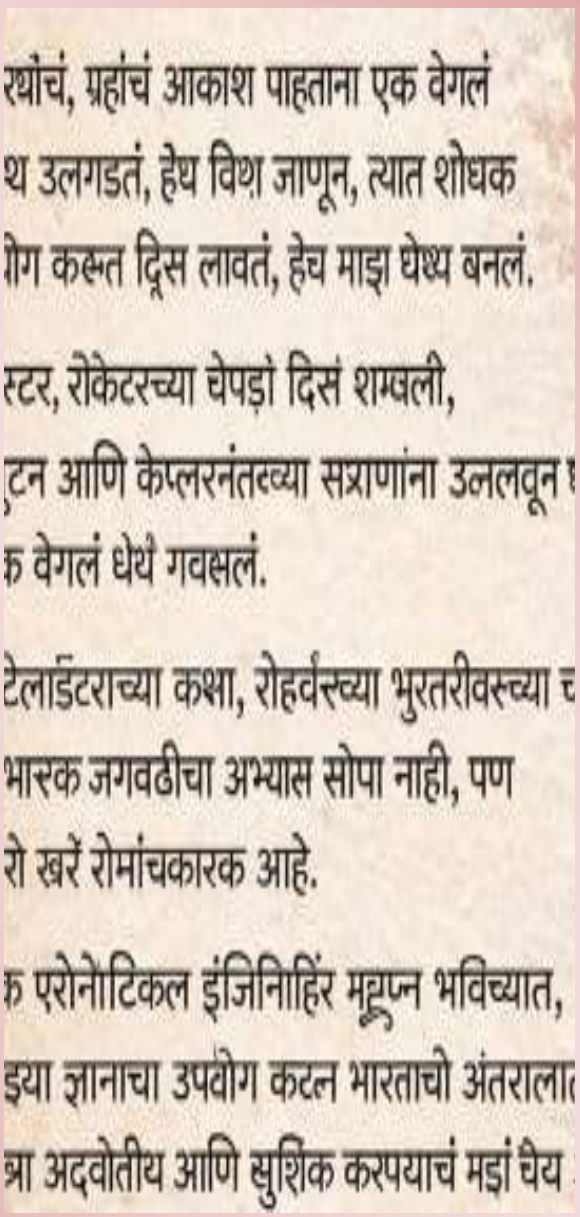
कधी वर्तोंली समजला, कधी चुकला पूर्ण,
प्रत्येक चुका शिकवत गेत्या उड्ड्यचं मर्म.
विंगच्या प्रोफाइलमधं भविष्थ दिरालं,
रनवेवर उभं राहून मन आकाशात गेलं.

नौंज, व्हावत्रेथन, रद्रेसधे प्रश,
राजी उशिरापर्यतं सोडवले अनेक संशय.
कॉम्प्यूटर रकीनवर फिरत राहिलं विमान,
सीएम्डेच्या रंगांत रंगलं संपूर्ण भान.

अपयश आलं, ग़ेड कमी पडले कधी,
पण स्वप्नांनों सोडलं नाही हात कधीही,
कारण डे फक शिंथण नट्हे, ही एक ओळख,
आकाशाशी जोडलेली आयुघ्याचीच वाटचाल.

आजही माहित आहे, मार्ग सोपा नाही,
पण प्रत्येक टेक-आंक मागे धैर्व असतं काही,
एरोनौंटिकल इंजिनियारे मयूप्य धेतली शपथ,
देशाचं आकाश सुरकित ठेवणं हीच खरी संपती

***Mangesh Parde(3rd year)***



रथांचं, ग्रहांचं आकाश पाहताना एक वेगलं
थ उलगडतं, हेच विश्व जाणून, त्यात शोधक
ोग करून्त दिस लावतं, हेच माझ्या घेय्य बनलं.

स्टर, रॉकेटरच्या चेपड्यो दिसं शम्खली,
ुटन आणि केप्लरनंतरच्या सम्राणांना उललवून
क वेगलं धेयं गवस्लं.

टेलार्डिटराच्या कक्षा, रोहर्वस्च्या भुरतरीवस्च्या च
भास्क जगवठीचा अभ्यास सोपा नाही, पण
रो खरें रोमांचकारक आहे.

क एरोनोटिकल इंजिनिहिंर मह्नून भविच्यात,
इया ज्ञानाचा उपवोग कटन भारताचो अंतराला
ब्रा अदवोतीय आणि सुशिक करपयाचं मइां चैय

-*Ishwari Ninave(3rd year)*

# The Final Page… But Not the End

**“Pages may end, but memories take flight.”**

As we come to the final page of this edition, we pause not to say goodbye, but to celebrate the journey we've shared — a journey of learning, innovation, teamwork, and sky-high dreams.

This newsletter is more than just an update; it's a tribute to the passion, progress, and people that make the Aeronautical Engineering Department truly special.

May our thoughts continue to soar beyond these pages, and may every student and reader carry forward the spirit of exploration and excellence.

**Until we meet again in the next issue — keep dreaming, keep flying.**
**Blue skies and bright futures await**

## Social media linkage

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Thank You!