TGPCET-ELECTRICAL -

# NEWSLETTER

**–** 2024–25 Edition





**An Autonomous Institute** 

Volume 25 Issue 2 **EDITION** 

2025

**DEPARTMENT OF ELECTRICAL ENGINEERING** 

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#### **Institute Vision**

To Emerge as a Learning Centre of Excellence in the National Ethos in Domains of Science, Technology and Management.

#### **Institute Mission**

- M1: To Strive for rearing standard and stature of the students by practicing high standards of professional ethics, transparency and Accountability.
- M2: To Provide facilities and services to meet the challenges of Industry and Society.
- M3: To Facilitate socially responsive research, innovative and entrepreneurship.
- M4: To ascertain holistic development of the students and staff members by including knowledge and profession as work Practices.

#### **Department Vision**

To emerge as a learning hub and center of excellence in the domain of Electrical Engineering.

#### **Department Mission**

- M1: To disseminate knowledge replete with quality education in the field Of Electrical Engineering in meticulous and methodical manner.
- M2: To provide to address societal issues as well as challenges faced by industries.
- M3: To develop research culture and inculcate innovative and entrepreneurial skills.
- M4: To ensure overall development of students and staff by instilling knowledge and professional ethics as a part of lifelong learning.





#### **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.

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- 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

## Program specific outcomes

- **PSO 1:** Formulate the solutions to Electrical and Electronics Engineering problems using the basic concepts.
- **PSO 2**: Develop the process to interpret networks parameters in power system operation and control with their protection and driving mechanisms.
- **PSO 3**: Apply project based learning to conduct experiments with Electrical Machines, Power Electronics to develop energy efficient systems.

#### **ABOUT TGPCET**

# **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.



#### ABOUT ELECTRICAL ENGINEERING DEPARTMENT

Electrical Engineering is the one of core branch of Engineering. The Department is NBA Accredited from session 2023–24. The basic infrastructure like electrical power plays the major role in the developing economy. The knowledge of fundamentals of electrical engineering is essential for almost all streams. The Department Of Electrical Engineering provides in depth education & prepares its students for all the possible future career & developments in technology. Department has a fine blend of experienced as well as young dynamic enthusiastic personalities as faculty for providing quality education at both B.E.(Electrical) and M.Tech.(Integrated Power System). It aims to promote research and teaching activity based on advanced and novel teaching methods. Technical experts from the industries and institution also contribute to the institute with their knowledge and experience.

The specious infrastructure, well equipped laboratories, meritorious students and academically qualified and enthusiastic faculty being the salient features of the Department. The college maintains good culture and discipline by having close association with each student through 'Teacher Guardian Scheme'.

# **Management Desk**



"Education is the passport to the future, for tomorrow belongs to those who prepare for it today."

Dr. Mohan Gaikwad-Patil, with more than 35 years of experience in the 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 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 the 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 an educational group well known in the region for its constant striving to impart quality and industry-relevant education to the students by teaching courses like B.Tech, M.Tech, Architecture, Polytechnic, MBA, MCA, Pharmacy, BAMS, Physiotherapy and Nursing. Hardly in his early forties, Dr. Mohan Gaikwad-Patil is the young and dynamic face of the group. His contagious enthusiasm and unflagging drive are truly inspiring.

Dr. Mohan Gaikwad-Patil Chairman, GPG



#### "Education is not preparation for life, education is life itself."

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.

Mr. Akash Gaikwad-Patil Vice Chairman, GPG

# **ACADEMIC PATRONS**



#### "Nurturing Innovation, Empowering Leaders - Engineering Education Redefined."

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.

Looking at our track records, TGPCET has achieved many feathers in terms of consistently good results, placements, and extracurricular activities too. We are continuously in the process of imparting quality education to our budding engineers. This journey is succeeding more gloriously year after year making our Engineers rule the world. Success depends on opportunity. Try to get the maximum from the available resources. I wish best of luck in all your endeavors.

Dr. P.L. Naktode 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.

At TGPCET, we leverage cutting-edge technology to foster an innovative learning environment, encouraging students to think critically and explore new ideas. Our students engage in national and international competitions to tackle real-world challenges, supported by faculty who stay updated with the latest technologies. Professional organizations like IEEE, CSI, ISTE, SAE-India, and SESI enhance skills through robust platforms. Beyond academics, we promote holistic development through sports, cultural activities, and social initiatives, nurturing responsible citizens. Join TGPCET to excel, innovate, and lead in a supportive environment where growth and transformation are limitless.

Dr. Pragati Patil Vice-Principal





# **HOD'S MESSAGE**



Hello, Electrical Community,

I wanted to express my excitement as we embark on another year of growth and innovation within our department. The ever-evolving field of Electrical Engineering remains at the forefront of our focus, and this year, we are particularly enthusiastic about exploring the potential of Electrical vehicles and other emerging technologies.

Our faculty's unwavering dedication and our students' boundless enthusiasm continue to drive us forward. As we progress, I encourage you to stay engaged by attending our guest lectures and participating in our workshops. Together, let's continue to bridge the gap between theory and practice.

I want to extend my heartfelt appreciation to our faculty and students for their hard work and dedication. Here's to a year of pushing boundaries and shaping a tech-driven future.

BEST REGARDS,
PROF. GANESH WAKTE
HEAD OF ELECTRICAL DEPARTMENT

# **Newsletter Committee**

#### **Staff Coordinator**



Miss. Mrunali Kite Assistant Professor

#### **Student Coordinator**



Priya Soni, 2nd Year



Chahul Tembhare, 3rdYear



Pranali Meshram, 4th Year



Vaidehi Meshram, 2nd Year



Eknath Devkar, 3<sup>rd</sup>Year



Jaswini Ambudare, 4thYear

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#### Industrial Visit at HRT- High Rise Transformer.



Industrial An visit conducted at HRT -Rise Transformer, Located in MIDC Nagpur on 2025.The lanuary. event was effectivelycoordinated byProf. Mrunali kite and Mr. Anand Thombarethe visit was coordinated by Mr. Samir Jadhav on the topic "Transformer and DC Machine", "Construction and Working of Power Transformer" the key points told by the expert "Mr. Samir Jadhav".

#### Industrial Visit at Transformer Section at KTPS Koradi.

The Department of Electrical Engineering arranged an industrial visit to the Transformer Section of KTPS Koradi in Nagpur on January 11, 2025. The visit was effectively coordinated by Prof. Manjit Sakhare and Mr.AnandThombare. The objectives of the KTPS are to generate electricity from coal, providing power to Vidarbha region of Maharashtra. KTPS aims to utilize coal as its primary resources to produce steam, which then driven turbine to generate electricity.



#### **Parents Teacher Meeting**



The Parent–Teacher Meeting took place on February 15, 2025. During the PTM, we honored the top performers of the W–2024 end–of–semester exam by presenting them with certificates and tokens of appreciation. The objective of parent's teacher meeting is to foster communication and collaboration between parents and teachers, discuss students' progress and development, address concern, and collaboratively set goals for student's future.

#### **Guest lecture on Introduction to Python Programming**

The guest lecture titled "Introduction to Python Programming" took place on February 11, 2025. The event was effectively organized by Professors Ashwini Admane and Mrunali Kite. The objective of introduction to python programming is to provide foundation in programming concepts and the python language itself, enabling students to write basic program and solve problems. This include learning about data types, structure, function and OOPS concept.



#### Guest lecture Recent Advancements in Industrial Automation



quest lecture titled "Recent Advancements in Industrial Automation" was held on February 1. 2025. The event was effectively organized by Prof. Praful Ghadge and Prof. Mrunali Kite. The objective is efficiency, improving increasing productivity, reducing costs, enhancing safety and enabling greater flexibility and customization in manufracturing process.

#### **Project Exhibition**

The Project Exhibition has conducted on 28th Jan 2025. We are incredibly proud of the hard work and dedication shown by our students in this project. Their innovative approach to urban gardening not only contributes to their academic growth but also fosters a greater understanding of sustainability in our community.



#### Guest lecture on High Voltage Engineering and Safety Practices in Industries



A guest lecture titled "High Voltage Engineering and Safety Practices in Industries" took place on January 17–18, 2025. The event was effectively organized by Prof. Kunal Sawalakhe, Prof. Pritesh Mhaiskar, and Prof. Ashwini Admane. The objective of high voltage engineering and safety practices in industries is to ensure the safe and efficient operation of high voltage systems while minimizing risks to personnel, equipment, and property

#### Hands-on Workshop on Electrical Winding Design with MATLAB & Practical Applications.

A two-day hands-on workshop titled "Electrical Winding Design with MATLAB & Practical Applications" took place on January 17-18, 2025. The event was effectively organized by Prof. Ashwini Admane and Prof. MrunaliKite.The objective is to provide participants with a comprehensive understanding of electrical winding design principles, practical handson experience using MATLAB for simulation and analysis, and real-world application skills designs for efficiency performance,



### Guest lecture on How to Become an Entrepreneur? Skill Strategies and Action Plan



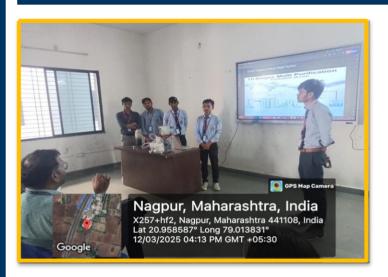
"How to Become an Entrepreneur? Skill Strategies and Action Plan" on this topic the guest lecture has conducted on 18 Jan 2025. The programmed was successfully coordinated by Dr. Pratik Ghutke and Prof. Ashwini Admane.To become a successful entrepreneur, you need a combination of skills, strategies, and an plan. This involves developing action essential skills like leadership, communication, and problem-solving, building a strong network.

#### **Project Exhibition**

The Project Exhibition took place on March 3, 2025. We are incredibly proud of our students and their dedication to their projects. The exhibition promises to be an inspiring event that showcases their hard work and creativity. The primary objective of a project exhibition is to provide a platform for students to showcase their final year projects, fostering creativity, innovation, and practical skills development.



#### **Project Seminar**



The Project Seminar took place on March 12, 2025. During this event, students presented the progress of their projects to our guests.The objective is to effectively communicate the project's purpose, scope, methodology, results, and conclusions audience. This includes informina the audience. seekina feedback, and demonstrating the project's impact and value.

#### **Alumni Meet**

The Alumnus Meet took place on March 13, 2025. Alumni had the chance to participate in breakout sessions focused various topics, including development, mentorship, and community involvement. The objectives are to foster strengthen connections between and alumni and their alumni themselves. This includes creating platform for a interaction, sharing experiences, and the institution's supporting development. Alumni meetsalso aim to enhance the institution's reputation and promote goodwill among alumni



On March 19, 2025, a group of 60 students from the Electrical Engineering Department embarked on an enlightening industrial visit to MSEDCL 33 KV Substation Gumgaon, Nagpur. This visit aimed to bridge the gap between theoretical knowledge and practical application in the field of engineering.



#### TECHSPARK- 2k25



On April 2, 2025, the Electrical Department organized the TECHSPARK - 2k25 national level event. We have set up three competitions at this event: a Poster Project competitions, competition, A PowerPoint Presentation. Theobjective national-level of a technical event is to provide a platform for engineers, researchers. students to showcase their technical knowledge, innovations, and ideas

#### Farewell Function- 2k25

Department of Electrical Engineering of TGPCET have organized a farewell function- 2k25 for the students of final year batch 2024-25 on 17.04.2025. 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 & atime to honor their journey, bid them farewell, and create lasting memories





Mr. Kohadkar's Anurag Narendra innovative project, titled "Gas/Smoke Leakage Detector & Control with Cooling Fan," has been proudly selected among the top 32 prototypes for the prestigious Patent Industry Connect (PIC) Advantage Vidarbha 2025. Held at RTM Nagpur University, Nagpur, the project secured an impressive 2nd position, highlighting Mr. Kohadkar's dedication to technological innovation and problemsolvina.

#### **Student Achievement**

The Electrical Engineering Department has demonstrated exceptional talent! Our third-year students accomplished an impressive milestone by winning the 3rd Prize for two teams at the esteemed National Level Technical Event - TECH TANTRA 2K25. This event took place on February 7, 2025, and was hosted by Padmashri Dr. V. B. Kolte College of Engineering in Malkapur.





The Electrical Engineering Department has demonstrated exceptional talent! Our third-year students accomplished an impressive milestone by winning the 3rd Prize for two teams at the esteemed National Level Project Competition - PROJECTXPO 2K25. This event took place on April5, 2025, and was hosted by Padmashri Dr. V. B. Kolte College of Engineering in Malkapur.

#### Utkarsh-2k25



"Honoring the legacy of the great Maratha warrior – Chhatrapati Shivaji Maharaj – with pride and patriotism at our college celebration!"



Celebrating unity, talent, and tradition — UTKARSH-2K25

# **Faculty Achievements**











## **ELECTRICAL ENGINEERING DEPARTMENT** LITERARY AND DRAMATIC WORK (COPYRIGHT)



Prof. Kunal Sawalakhe Asst. professor, EE



Prof. Ganesh Wakte Head, EE



Dr. Pratik Ghutke





"ADVANCEMENT IN REGENERATIVE BRAKING SYSTEM OF COMPREHENSIVE OVERVIEW"





Dr. Pratik Ghutke Dean, PG



Prof. Chetan Jambhulkar Asst. professor, EE



"TRANSFORMER HEALTH MONITORING SYSTEM USING AURDINO"

Registration Number: L-150463/2024



Prof. Vaishali Malekar Asst. professor, EE



Dr. Pratik Ghutke





"UNDERGROUND CABLE FAULT DISTANCE **LOCATOR USING AURDINI UNO"** 

Registration Number: L-150522/2024

B.Tech | B.Arch | M.Tech | MBA | MCA | BBA | BCA | Polytechnic | D.Arch | B.Pharm | D.Pharm | BAMS | B.Sc Nursing | Physiotherapy | Ph.P.



#### Elite

#### NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)





This certificate is awarded to

KUNAL SAWALAKHE

for successfully completing the course

NBA Accreditation and Teaching and Learning in Engineering (NATE)

with a consolidated score of

72

Online Assignments 23.6/25 Proctored Exam 48.75/75

Total number of candidates certified in this course: 2145

Aun. Prof. G. L. Sivakumar Babu airman, Center for Continuing Education IISc Bangalore

Jan-Apr 2025 (12 week course)



Skill India



Indian Institute of Science Bangalore

To verify the certificate Roll No: NPTEL25GE23S1052801736



No of credits recommended: 3 or



#### NPTEL ONLINE CERTIFICATION

This certificate is awarded to

PRITESH RAMESHRAO MHAISKAR

for successfully completing the course

NBA Accreditation and Teaching and Learning in Engineering (NATE)

with a consolidated score of 53

Online Assignments 21.1/25 Proctored Exam 31.5/75

Total number of candidates certified in this course: 2145



Prof. G. L. Sivakumar Babu airman, Center for Continuing Education IISc Bangalore

Jan-Apr 2025 (12 week course)



swavai



Indian Institute of Science Bangalore

Roll No: NPTEL25GE23S952801112

To verify the certificate



No. of credits recommended: 3 or 4



#### Elite

#### NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

This certificate is awarded to

DR PRATIK C GHUTKE for successfully completing the course

NBA Accreditation and Teaching and Learning in Engineering (NATE)

with a consolidated score of

68

Online Assignments 21.88/25 Proctored Exam 46.5/75

Total number of candidates certified in this course: 2145

Aun. Prof. G. L. Sivakumar Babu airman, Center for Continuing Education IISc Bangalore

Jan-Apr 2025 (12 week course)





Indian Institute of Science Bangalore

Roll No: NPTEL25GE23S1052801959



No. of credits recommended: 3





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## Certificate of Publication

The editorial board of Scientific International Publishing House is hereby awarding this certificate to **Dr. Pratik C.Ghutke**, in recognition of the publication of the text book entitled **CONTROL SYSTEM ENGINEERING** published in First edition.

ISBN NO: 978-93-6674-207-6 Year of Allotment of ISBN: 2024



Character Editor-in-Chief

www.sipinternationalpublishers.com







ATAL/2024/1721800146



#### 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 Mr. Pritesh Rumeshruo Mhaiskur, Feculty members of the AICTE approved institutions of Tutsitumji Gaikwad Patil College of Engineering and Technology. Nagpur has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Advancement in Electric Vehicle Technology and Challenges at GOVERNMENT POLYTECHNIC NAGPUR from 05/08/2011 to 19/08/2021.



GAJANAN KONDBAJI AWARI Other, Coordinator GOVERNMENT POLYTECHNIC NAGPUR 8

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

### **Students Achievements**

#### **NPTEL Certificate**



Proud Moment! Successfully completed an NPTEL course with an Elite Certificate. Hard work and dedication pay off!



Congratulations to Mr. Subodh Savarkar on successfully completing and earning certification in an NPTEL course!

#### **NPTEL Certificate**



# NPTEL ONLINE CERTIFICATION (Funded by the MoE, Govt. of India)

This certificate is awarded to

PRANALI VILAS MESHRAM

for successfully completing the course

AI in Human Resource Management

with a consolidated score of

55

Online Assignments 23.72/25 Proctored Exam 31.5/75

Total number of candidates certified in this course: 4648

Jan-Apr 2025 (12 week course)





Indian Institute of Technology Guwahati

Roll No: NPTEL25MG05S1152801312



No. of credits r



#### Elite

#### NPTEL ONLINE CERTIFICATION

This certificate is awarded to

RUCHITA GANESH BANTE

for successfully completing the course

**Cloud Computing** 

with a consolidated score of

Online Assignments 24.69/25 Proctored Exam 35.37/75

Total number of candidates certified in this course: 29703

Jan-Apr 2025 (12 week course)





Indian Institute of Technology Kharagpur

II No: NPTEL25CS11S952800327

To verify the certificate





#### **Elite**

# NPTEL ONLINE CERTIFICATION (Funded by the MoE, Govt. of India)

This certificate is awarded to

RUCHITA GANESH BANTE for successfully completing the course

**Programming In Java** 

with a consolidated score of

Online Assignments 25/25 Proctored Exam 37.5/75

63

Total number of candidates certified in this course: 16040

Jan-Apr 2025 (12 week course)



Swavam

Skill India



Indian Institute of Technology Kharagpur

Roll No: NPTEL25CS57S1152801340



No. of credits recommended: 3 or

B.Tech | B.Arch | M.Tech | MBA | MCA | BBA | BCA | Polytechnic | D.Arch | B.Pharm | D.Pharm | BAMS | B.Sc Nursing | Physiotherapy | Ph.D















#### **Placements**











#### Media Coverage





