

DEPARTMENT OF ELECTRICAL ENGINEERING

NEWSLETTER

SESSION 2023-24 (ODD)

SPARK 2K23



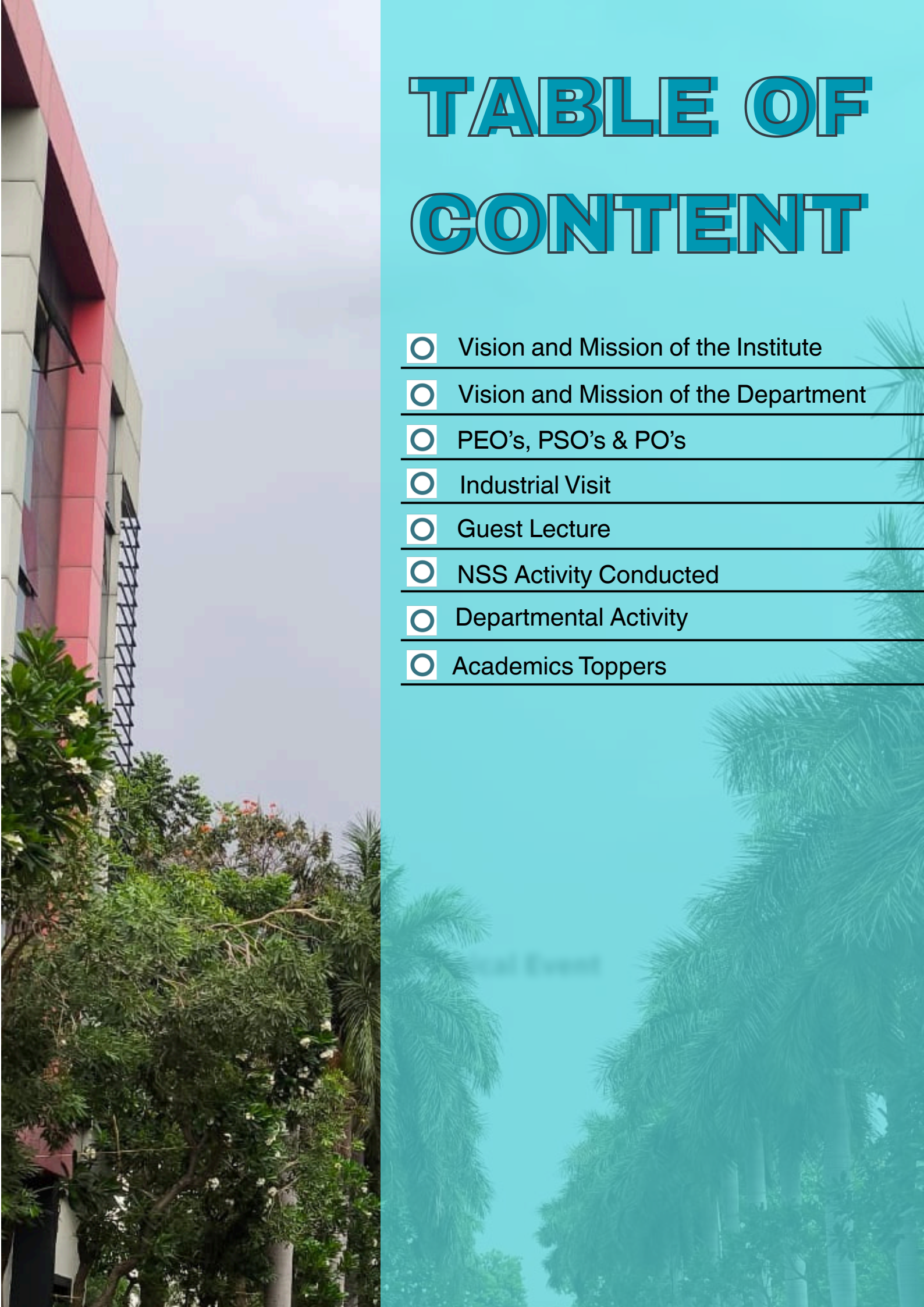
The background of the page is a photograph of a modern building with a red and white facade, partially obscured by lush green trees and palm trees. The right side of the page has a light blue overlay where the text is located.

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Vision of the Institute

To emerge as a learning Center of Excellence in the National Ethics in Diploma in Engineering.

Mission of the Institute

- M1: To elevate the standards of students through ethical practices.
- M2: To provide facilities and services to meet the challenges of Industry and Community.
- .
- M3: To ascertain holistic development of the students and staff members by inculcating knowledge and profession as work practices.

Vision of the Department

To Emerge as a learning Centre in the Domain of Electrical Engineering

Mission of the Department

- M1: To impart quality technical education through effective teaching & learning process.
- M2: To provide learning environment to face societal and industrial challenges of Electrical Engineering
- M3: To ensure overall development of students and staff members by inculcating knowledge and professional ethics as a part of lifelong learning.

About TGPCET

Tulsiramji Gaikwad-Patil College of Engineering and Technology Polytechnic (TGPCET) was established in the year 2013 by Vidarbha Bahu-uddeshiyaShikshan Sanstha (VBSS), a registered society. It is a self-financed Private Engineering College, which is affiliated to Maharashtra State Board of Technical Education Mumbai 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.

About Department

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. The specious infrastructure, well equipped laboratories, meritorious students and academically qualified and enthusiastic faculty being the salient features of the Department.

HOD's Desk



Mr. Ganesh Wakte

HOD, EE, Polytechnic

Welcome to the Department of Electrical Engineering of TulsiRamji Gaikwad-Patil College of Engineering and Technology, Polytechnic, Nagpur. We started our journey in the year of 2013. Over the last 11 years, we have grown our Expertise & competence in the core Electrical Engineering curriculum. Electrical Engineering department aims to nurture young talents with technical training to tackle real-world challenges. With a blend of experienced faculty, the department focuses on theoretical and practical approaches. The department has well-equipped laboratories and provides opportunities for collaborative growth through its technical society, "TECHNO-SPARK". The goal of this newsletter is to keep you updated with developments in Electrical Engineering Department of TGPCET Polytechnic. This department is continuously undergoing transformation. New initiatives have been launched related to academics, student affairs, extracurricular activities. The students & faculty members of the department are sincerely participating in various activities organized at institute or at other places. It is elevating to see the sound performance of students. I offer best wishes for future activities. At last, I thank to the editors of SPARK for their sincere efforts & I offer my best wishes to the readers of this newsletter.

PEO's, PSO's & PO's

Programs Educational Objectives:

PEO 1. Provide socially responsible, environment friendly solutions to Computer engineering related broad-based problems adapting professional ethics.

PEO 2. Adapt state-of-the-art Computer engineering board-based technologies to work in multi-disciplinary work environments.

PEO 3. Solve broad-based problems individually and as a team member communicating effectively in the world of work

Programs Specific Outcomes:

PSO 1. Computer Software and Hardware Usage:

Use state-of-art technologies for operation and application of computer software and hardware.

PSO 2. Computer Engineering Maintenance:

Maintain computer engineering related software and hardware system.

Programs Outcomes (PO's):

1. Basic and Discipline specific knowledge: Apply knowledge of basic mathematics, science and engineering fundamentals and engineering specialization to solve the engineering problems.
2. Problem analysis: Identify and analyze well-defined engineering problems using codified standard methods.
3. Design/ development of solutions: Design solutions for well-defined technical problems and assist with the design of systems components or processes to meet specified needs.
4. Engineering Tools, Experimentation and Testing: Apply modern engineering tools and appropriate technique to conduct standard tests and measurements.
5. Engineering practices for society, sustainability and environment: Apply appropriate technology in context of society, sustainability, environment and ethical practices.
6. Project Management: Use engineering management principles individually, as a team member or a leader to manage projects and effectively communicate about well-defined engineering activities.
7. Life-long learning: Ability to analyze individual needs and engage in updating in the context of technological changes.

Industrial Visit



Department of **Electrical Engineering** have organized an Industrial visit at Industrial Visit at PEE VEE Textiles Ltd. Samudrapur, Nagpur Maharashtra.

Aim: To provide practical exposure to textile manufacturing processes and the integration of modern machinery and sustainable practices.

Department of Electrical Engineering of Tulsiramji Gaikwad Patil College of Engineering & Technology, Polytechnic, Nagpur student visited "Industrial Visit at PEE VEE Textiles Ltd. Samudrapur, Nagpur". Students observed spinning, weaving, and processing operations, explored advanced textile machinery, and learned about industry-specific quality control and eco-friendly techniques. The visit enhanced their understanding of industrial applications aligned with theoretical learning

Guest Lecture



Aim: Expert lecture on Electrical Safety and Maintenance is to enhance students' understanding of safe electrical practices and preventive maintenance techniques to ensure reliability and accident-free operation of electrical systems.

The Guest speaker for the session was Mr. Akash Barapatre, Jr. Executive Engineer, Steel Coated Product Ltd JSW Kalmeshwar, Nagpur. He delivered the session on basics of Electrical Safety and put up lime light on important aspects of Maintenance practices in Industries. He guided the students about overall Safety and working of different sections of Substation. The lecture cover key topics such as understanding the importance of electrical safety.



Aim: Personality development lecture on Communication Skill and Presenter in Me is to enhance students' communication and presentation skills for overall personality development.

The lecture was delivered by Mr. Visshesh Prasad a renowned expert in communication skills and presentation techniques. The aim of the lecture was to enhance the communication and presentation skills of ME students, enabling them to effectively convey their ideas and projects. He emphasized her lecture directing the students to overall idea about leadership quality and how to gain trust from people and always be honest in every situation positive thinking, Team works etc.

NSS Activity Conducted

MERI MAATI MERA DESH CAMPAIGN



Department of Electrical Engineering, Polytechnic under NSS Unit of TGPCET, Nagpur in association with Gram panchayat Bothali organized program on the occasion of "Meri Mati Mera Desh" campaign in the Borkhedi village on dated 15-08-2023. Ministry of Education has been actively involved in the grand celebration of our nation's 75 years of independence through the Azadi ka Amrit Mahotsav (AKAM) initiatives. The aim of the program was to foster a sense of patriotism, community service, and environmental awareness among participants, while promoting the importance of rural development and community engagement. The objective of the program was to develop a sense of national pride and responsibility among participants.

Departmental Activity

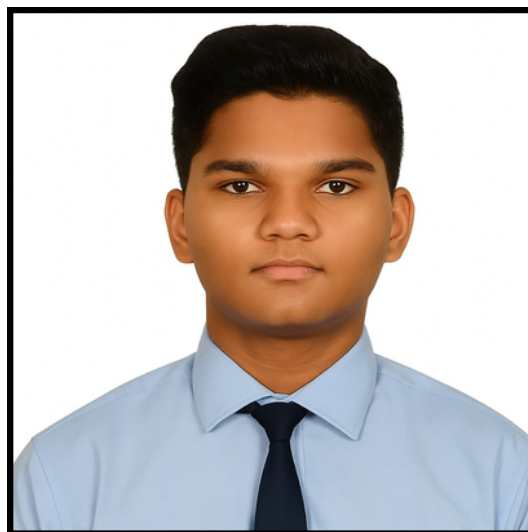
ECO-CRAFTING

The Department of Electrical Engineering, Polytechnic, Tulsiramji Gaikwad-Patil College of Engineering and Technology, Nagpur, organized an Eco-Crafting Competition on 30th September 2023. The event was conducted in collaboration with professional bodies IEI, ISTE, and PHONIX. The initiative aimed to promote sustainable practices through creative and purposeful crafting using recyclable materials. The competition provided a platform for students to showcase their creativity while raising awareness about environmental conservation. The aim of the event was to instill eco-consciousness among students by encouraging them to repurpose waste materials innovatively and sustainably. The objective of the event was to encourage students to utilize waste materials creatively and constructively.

Academics Topper



Mayur Balpande
1st Semester
72.47%



Kunal Chavare
3rd Semester
77.87%



Ashutosh Sonkusare
5th Semester
89.00%



DTE Code: 4151

MSBTE Code: 1683

TULSIRAMJI GAIKWAD-PATIL
College of Engineering & Technology

Approved by AICTE, Recognized by Govt. Maharashtra & Affiliated to MSBTE, Mumbai

— POLYTECHNIC —



GAIKWAD-PATIL
GROUP OF INSTITUTIONS



Courses we Offer:

- Computer Science & Engineering
- Information Technology
- Civil Engineering
- Mechanical Engineering
- Electrical Engineering
- Electronics & Communication



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