



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 —



DEPARTMENT OF ELECTRICAL ENGINEERING

NEWSLETTER

SESSION : 2022-23 ODD)

SPARK

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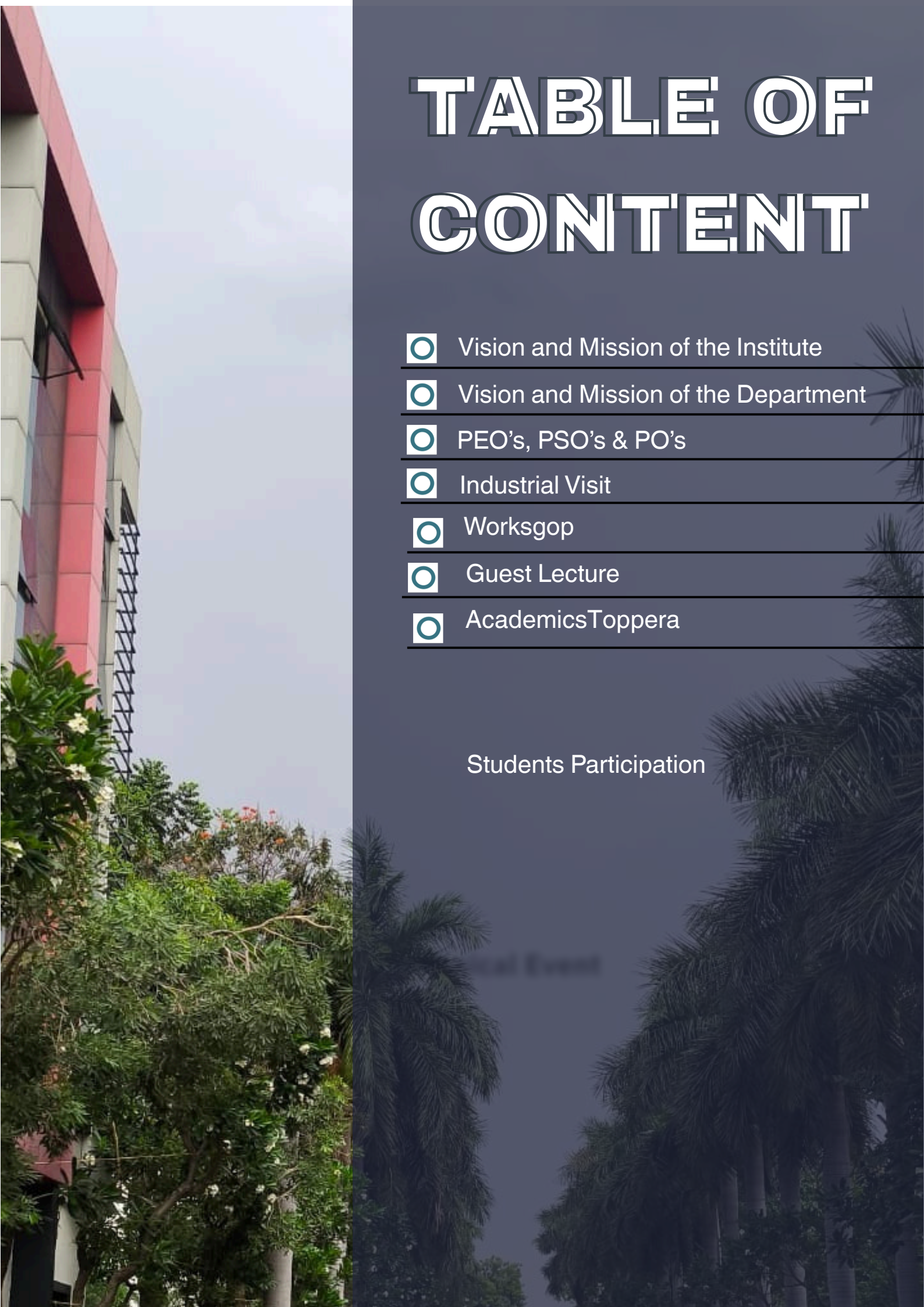
The background of the page is a photograph of a modern building with a red and white facade, partially obscured by lush green trees and palm trees in the foreground. The right side of the page has a dark grey overlay where the text is located.

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Students Participation

Vision of the Institute

To emerge as a learning Center of Excellence in the National Ethos 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 Lokmat Press Pvt. Ltd. Butibori, Nagpur, Maharashtra

Aim: Industrial visit was to provide students with a practical understanding of the electricity distribution system and its operations.

Industrial Visit at MSEDCL ,Butibori Was organized on 11th November 2022 for 2nd & 3rd year. The theoretical and on field session was engaged by Mr. Sunil Jain,field Engineer MSEDCL aims to provide reliable and efficient electricity distribution services to consumers across Maharashtra Online platform for consumers to manage their accounts and pay bills.

Guest Lecture



Aim: Expert lecture was to equip students with a comprehensive understanding of methodologies and best practices involved in power plant testing and maintenance.

The session was delivered by Mr. Ashish Pahurkar, a highly experienced professional from the Thermal Power Plant at Koradi, Nagpur. The objective of the lecture was to understand the critical role of testing and maintenance in power plant operations.



Aim: Expert lecture was to provide students with a comprehensive understanding of the core concepts and practical aspects of electrical system design.

Mr. Akshay Jain, a seasoned expert in electrical system design, delivered the session. He elaborated on how electrical systems range from simple circuits like flashlights to complex systems in aerospace. The focus was on the logical design and integration of electrical components to meet functional and safety requirements. During the lecture, students learned about the fundamental principles of electrical systems, including circuit analysis and electrical codes.

Academics Topper



Lakshya Waghmare
3rd Semester
82.57%



Ashutosh Sonkusare
5th Semester
82.5%



Kartik Wandhare
7th Semester
81.7%



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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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Tulsiramji Gaikwad-Patil
College of Engineering and
Technology. Mohagaon,
Wardha Road, Nagpur, 441108
Maharashtra, INDIA.