

VIDYUTVISHWA

Newsletter for the Electrical Engineering Department



Vishwakarma Government Engineering College, Ahmedabad

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About Department

The Electrical Engineering Department started in 1994 and offers bachelor of engineering in electrical engineering. The program has intake of 150 students and is designed and updated keeping in view the constantly changing industrial needs, skills and challenges emerging out of new research. The department is very well equipped with laboratory facilities and constantly upgrading available hardware and software facilities to create research/testing environment leading to a great opportunity to learn and progress in different technical domains. The department has well qualified faculties playing major roles in creation of competent & disciplined engineers to serve the nation.

Vision

To produce comprehensively trained, socially responsible and innovative electrical graduates to contribute to the society

Mission

- To develop well equipped laboratories and infrastructure for conducive learning.
- To produce competent and disciplined electrical engineers to serve the nation.
- To help in building national capabilities for excellent energy management and to explore nonconventional energy sources.
- To produce electrical engineers with an attitude to adapt themselves to changing technological environment.
- To enhance entrepreneurship skills through start up.

Program Educational Objectives (PEO's)

- Develop and conduct appropriate electrical experimentation, analyse and interpret data, and use engineering judgment to draw conclusions.
- Acquire and apply new knowledge as needed, using appropriate learning strategies through innovation.
- Work independently on a project or as a team leader.
- Get an employment in various government and private sector companies, pursue research and innovation.

Program Specific Outcome (PSO's)

- Apply electrical engineering knowledge to analyze, test, and develop innovative solutions for industries and entrepreneurship which aim to address the relevant societal and environmental issues.
- Utilize various modern electrical instruments and simulation tools to design, analyze, and optimize complex electrical circuits and networks, incorporating existing and emerging technologies.
- Exhibit technical expertise in evaluating and modifying electrical systems for energy efficiency, automation, interdisciplinary collaboration, and real-world problem-solving.

Editorial Team

Prof. Vaibhavi M Parmar

Prof. Grishma P Pipaliya

Designed By

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Department Events / Activities

The Electrical Engineering Department of Experts from Government Engineering VSEC, in collaboration with NITTTR, has Colleges, NIT, PDEU, Nirma University, organised a one-week short-term training and IITRAM were invited to deliver expert program for engineering faculties and students sessions on the latest research areas of the Master of Engineering on “**Electric Vehicle**” from 16th January to 20th Gujarat this STTP, industrial visits at the BRTS The STTP was coordinated by **Prof. (Dr.) S. N. Pandya, Prof. D. R. Dobariya, Prof. R. K. Ahir, and Prof. B. K. Patel.** charging station and iACE Gandhinagar were also planned.

Faculty Development

Prof. M L Patel, Prof. R R Surani & Prof. G P Pipaliya

Completed a 12 weeks NPTEL MOOC course on “**Power Quality**” from January to April 2024.

Prof. D R Dobariya

Participated in one week training on “**Train the trainer - Electric Vehicle**” organised by International Automobile Centre of Excellence from 18th March to 22nd March 2024.

Prof. V M Parmar, Prof. A T Mistry, Prof. M G Jadeja, Prof. D V Prof. M G Jadeja & Prof. D V Makwana & Prof. N B Panchal Makwana

Completed a 12 week MOOC course on “**Leadership and Team Effectiveness**” from January to April 2024.

Completed an 8 week MOOC course on “**Yoga and Positive Psychology for Managing Career and Life**” from January to March 2024.

Faculty Development

Prof H. D. Mehta

Completed a 12 week MOOC course on **“Non-conventional Energy Resources”** from January to April 2024.

Prof. R R Kapadia

Completed an 8 week MOOC course on **“Power Quality Improvement Techniques”** from January to March 2024.

Prof. H B Vaghela

Completed a 12 week NPTEL based MOOC training on **“Training and Development”** from January to April 2024.

Prof. S S Agrawal, Prof N. B. Panchal, Prof. R. K. Ahir & Prof. D V Makwana

Completed an NPTEL based MOOC training on **“MOOC course on student assessment”** in May 2024.

Prof. R R Kapadia, Prof. H N Zala, Prof. A Y Solanki & Prof. M L Patel

Attended an online training on **“Fundamentals of Semiconductor Package Manufacturing”** organised by Gujarat Technological University (GTU) Chandkheda and Micron Technology, during 15th, May 2024 to 15th, June 2024.

Prof. V. M. Parmar, Prof. R. K. Ahir, & Prof. Y. B. Bhavsar

Participated in a one-week training program on "Electric Vehicles" organized by the Electrical Engineering Department of VGEC, in collaboration with NITTTR, from January 16th to 20th, 2024, at the NITTTR Gujarat Extension Centre, RCTI-Ahmedabad.

College Events / Activities

On June 10th, 2024, Dr. H. D. Mehta from the Electrical Engineering Department delivered an insightful seminar on "Electrical Safety" from 11:00 AM to 12:30 PM. The seminar aimed to raise awareness among faculty members and students about the critical importance of electrical safety both in the workplace and at home.



Dr. V. S. Purani,
Principal, V.G.E.C addressing the audience.



Dr. H D Mehta, Electrical Engineering Department
conducting the seminar

It covered essential topics such as identifying potential hazards, avoiding electrical accidents, implementing best practices for electrical safety, and taking necessary precautions during lightning storms. The session was well-received, with approximately 60 participants actively engaging in the discussions and gaining valuable knowledge on maintaining a safe environment.

V.G.E.C Accomplishments

Dr. S N Pandya from Electrical Engineering Department has been nominated as **Dean of Degree Engineering Faculty,** _____
Gujarat Technological University.

Prof. D R Dobariya from Electrical Engineering Department earned his Ph.D in the field of "**Induction charging for storage system of hybrid electric vehicle**" on 27th April, 2024.