



VIDHYUTVISHWA

NEWSLETTER OF THE ELECTRICAL ENGINEERING DEPARTMENT



VISHWAKARMA GOVERNMENT ENGINEERING COLLEGE

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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 conductive 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 (PEOs)

- Develop and conduct appropriate electrical experimentation, analyze 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(PSOs)

- 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. Roopal R. Kapadia
Prof. Vaibhavi M. Parmar

Prof. Rozina R. Surani
Prof. Grishma P. Pipaliya

Designed By

Dhrumil A. Shukla
(210170109034)

COLLEGE EVENTS / ACTIVITIES

The Electrical Department organized an expert talk on "Dielectric materials in emerging technique, material preparation and characterization" for 6th semester EE students on 31st March, 2023 from 11:00 AM to 1:00 PM. The talk was delivered by Prof. Hiral P. Raval and Prof. Vaishali A. Adhwaryu, Assistant Professors in S&H department, L.D. College of Engineering, Ahmedabad. The main objective for this expert talk was to educate students about Di-electric materials used in real application of electrical engineering. Total 70 students benefited from this talk. The talk was coordinated by Prof. Minaxi Patel.



Electrical Engineering Department organized an Expert session in association with VAA on "Role of Leadership and Strategic thinking in Engineer's Career" on 24th March 2023 was delivered by 2014-Alumnus Mr. Parimal Astik. Prof. A.T.Mistry coordinated this event. The session was attended by 50 students.



From this year, Electrical Engineering department has introduced **Minor degree course on Electric Vehicle** to the students.

RESEARCH & INNOVATION

Prof. D. R. Dobariya

Published a paper titled "Performance Enhancement of 3.55 KW Power Pads of Wireless Power Transfer Coils for Electric Vehicle" in International Conference on Recent Advances in (Applied) Sciences & Engineering (Raise) 12- 13 April, 2023 organized by Faculty Of Technology & Engineering, The Maharaja Sayajirao University Of Baroda

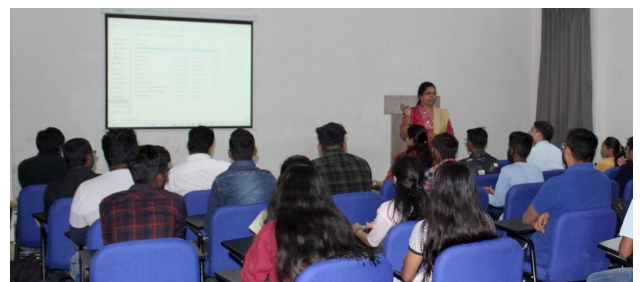
Prof. D. R. Dobariya

Published a paper titled "Accurate Design, Calculation and Analysis of Two Square Power Pads for Stationary Wireless Power Transfer in Electric Vehicle" in AICTE & GUJCOST Sponsored 2nd International Conference on Data Science and Intelligent Applications (ICDSIA-2023)

EXPERT LECTURE

Prof. R R Kapadia

conducted an expert lecture on "Power system stability, issues and challenges" on 9th February 2023 at C K Pithawala College of Engineering and Technology, Surat.



FACULTY DEVELOPMENT

Prof. R. R. Surani

Completed NPTEL 4-week MOOC/FDP on Outcome-based Pedagogic Principles for Effective Teaching.

Prof. G. P. Pipaliya & Prof. N. J. Patel

Attended two weeks training program Induction Phase-I organised by NITTTR, Bhopal from 30th January to 10th February, 2023.

Prof. R. R. Surani

Completed NPTEL 8 week MOOC Course on Digital Protection of Power System with 72 % Score.

Prof. R. R. Surani

Completed online 12 modules of Energy Literacy Training conducted by Energy Swaraj Foundation.

STUDENT ACHIEVEMENT

Dhaumil Parmar and **Kush Prajapati** of Electrical Engineering Department were felicitated with One of the top 3 startups of Gujarat, EDII

Meet Chaudhari (Sem-VI Electrical Engineering Department) completed 6-month IBM Data science Specialization MOOC course from IBM by Coursera

Satish Patel (Sem VIII-Electrical Engineering Department) qualified GATE 2023 Examination with GATE Score 447 and AIR 2129

Durmil Bamania (Sem VIII-Electrical Engineering Department) qualified GATE 2023 Examination with GATE Score 517 and AIR 2174

NSS-VGEC volunteer **Meet Chaudhari** (5th EE) got selected for 26th National Youth Festival held at Dharwad, Karnataka which was organized from 12/01/2023 to 16/01/2023

Nishi Prajapati (2nd sem EE) won first prize in poem writing competition organized by NSS VGEC under the event NARAYANI (Women Empowerment Week Celebration under G20)

Student of 6th sem EE, **Yogini Modi** has completed 6 week online training from Internshala on PLC Programming and secured 80%

Hetvi Patel(6th sem EE) won first prize in Rangoli competition organized by NSS VGEC under the event NARAYANI (Women Empowerment Week Celebration under G20)

Manthan Sharma (2nd EE) won third prize in Rangoli competition organized by NSS VGEC under the event NARAYANI (Women Empowerment Week Celebration under G20)

Aastha Tiwari (2nd EE) student won first prize in Elocution Competition organized by NSS VGEC under the event NARAYANI (Women Empowerment Week Celebration under G20)

Meet Chaudhari(6th EE) student won second prize in Elocution Competition organized by NSS VGEC under the event NARAYANI (Women Empowerment Week Celebration under G20)

Student of 6th sem EE, **Sourav Singh** has completed 6 week online training from Internshala on Product Management and secured 97% marks.

Student of 6th sem EE, **Manish Mangaliya** has completed 6 week online training from Internshala on Embedded Systems.

Akriti Maurya (6th sem Electrical) and **Chaudhary Rutvik** (4th sem Electrical) won the DD National Robocon 2023 competition, held at IIT, Delhi. They are team members of GTU robotics club.

ALUMNI CORNER

RATHVA HARSHADKUMAR VINUBHAI (Alumnus, Electrical Engineering Department, 2020) is Selected in GSECL as Junior Engineer on dated 16, January 2023

Maitrey Nandola (Alumnus, Electrical Engineering Department, 2019) joined L & T power as a Senior Engineer-Power system Study in the month of March-2023

Vanara Rushabh (2013 passout), VGEC Electrical alumnus has filed a patent on PIPE EXTRUSION DEVICE in the month of May, 2023.

To promote a sustained sense of belonging to the Alma Mater among the Alumni and to exchange the ideas on technological advancement, Electrical Engineering Department organized an Alumni Meet on 24/02/2023 to reconnect with the alumni. It was a matter of pride that the total of 45 alumni graduated from 1998 to 2022 remained present and graced the event. Prof. Y.B. Bhavsar coordinated this event.



TRAINING & PLACEMENT

Electrical department under TnP cell organised Soft skill sessions for 2024 passout batch students on 17th, 19th, 20th and 21st May 2023 at Vishveshvariya Auditorium, VGEC. Mr. Uday Dholakiya, Founder and Director of Pathdarshak conducted sessions and discussed about SWOT Analysis, Resume Building, Group Discussion and Interview Skills. Total 93 students took part in these sessions. Prof. H B Vaghela coordinated the sessions.



PLACEMENT DATA

**Matter Motor
Works
4**

**Torrent Power Ltd
(Renewable energy)
6**

**Moglix
2**

**Siemens Limited
2**

**Pie-infocom
1**

**Torrent power
AMGEN
1**

**Exide Private Ltd.
3**

**Torrent AMDIST
8**

**Amrut Energy
4**

**BEL
2**

**Transformer &
Rectifier Ltd
2**

ACADEMIC ACHIEVEMENTS

8th sem

		CPI
190170109095	PATEL SATISHKUMAR	9.23
190170109141	VAIBHAV VERMA	8.94
190170109140	VEGAD KANDARP	8.89

7th sem

		SPI
190170109141	VAIBHAV VERMA	8.96
190170109091	PATEL KRINA	8.79
200170109511	VEGAD JAY	8.75

5th sem

		SPI
200170109131	MAITRI MERCHANT	9.09
210170109519	JADAV URVI	8.91
200170109117	TANDALE HARSH	8.78

3rd sem

		SPI
210170109125	KHILAN LADANI	8.74
210170109014	PRASAD PARESH	8.70
210170109070	SATYAM PANDEY	8.26

1st sem

		SPI
220170109125	SUTHAR KHUSHKUMAR	9.57
220170109141	YADAV RAUSHAN	8.52
220170109046	KOSHITA PIYUSH	8.19

CREATIVE CORNER



Sarvaiya Parth
(200170109510)



Solanki Jaydipsinh Jasvantsinh
(180170109107)



Dhrumil Shukla(210170109034)



Prof. G P Pipaliya

Prof. G P Pipaliya



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MAJOR RECRUITERS



SIEMENS