



ELECTRI.CT

"Where Ideas Flow Without Resistance"

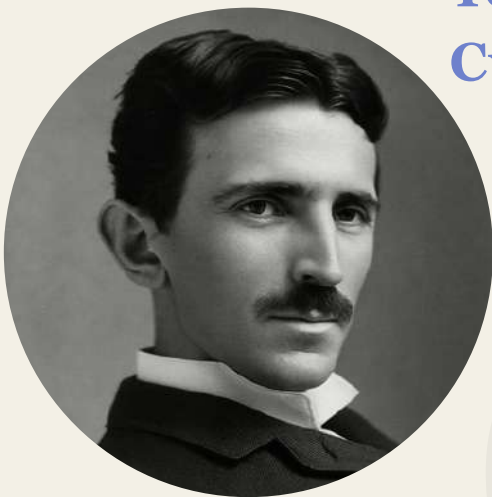


13TH EDITION
AUGUST 2025

THE WAR OF CURRENTS

In the late 1880s, a fierce rivalry lit up the world — quite literally. This was the War of Currents, a dramatic battle between Thomas Edison and Nikola Tesla, two of the most brilliant minds in electrical engineering.

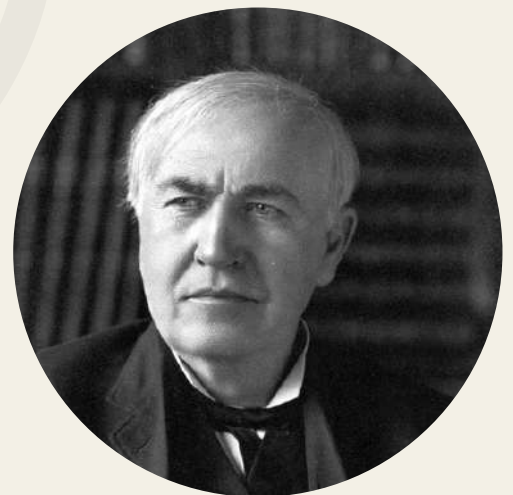
Tesla's Vision: Alternating Current (AC)



AC could easily be stepped up or down in voltage using transformers, making it much more efficient for long-distance transmission. It could power entire cities from a single power plant.

Edison's Weapon: Direct Current (DC)

Edison championed DC (Direct Current) — a steady, one-directional flow of electricity. But DC had one major flaw: it couldn't travel far without losing power. Edison launched a propaganda campaign against AC, claiming it was dangerous.



Tesla's vision had won. AC became the foundation of the modern power grid, and it still powers the world today.



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VISION

- To foster learning environment for electrical engineering education having high technical skills, ethical values and overall global competence.



MISSION

To provide high quality graduate program in electrical engineering so that it prepares students for:

- Better employability, startups and entrepreneurship
- A professional career with essential technical and managerial skills
- Collaboration with industry through Research & Innovation
- Other avenues for higher education
- Adapting to change in technology and apply the same for the benefit of society at large

PRINCIPAL'S DESK



"Innovation distinguishes between a leader and a follower" - Steve Jobs

Dear Readers,

As we unfold this issue, we celebrate not only our national freedom but also the spirit of innovation, learning, and progress that defines L.D. College of Engineering.

The milestones achieved so far by the institute are not just a commemoration of our nation's freedom but also a moment to reflect on our responsibility to contribute to its progress through innovation and education. The Electrical Engineering Department continues to be a cornerstone of our institution, driving advancements in technology and nurturing the next generation of engineers who will power the future.

In addition to technical competence, we emphasize integrity, ethical leadership, and responsible citizenship. Various initiatives of the institute have embraced collaborative projects, industry partnerships, and meaningful outreach—preparing students to navigate the challenges of the 21st century with vision and values. As we move forward, let us continue to uphold the values of excellence, integrity, and innovation, ensuring that our contributions resonate both locally and globally.

I extend my heartfelt congratulations to all contributors—faculty, staff, students, and alumni—who have worked relentlessly to bring this edition to life. Let us continue to innovate, learn, and serve. Wishing you all a meaningful and uplifting Independence Day.

Warm regards,
Jai Hind!!!
Dr. N. N. Bhuptani

HOD'S TALK



Dear Esteemed Stakeholders,

It gives me great pleasure to present the 13th edition of our department magazine, ELECTRI.CT. This issue stands as a proud reflection of the achievements, innovation, and indomitable spirit of the Electrical Engineering Department.

This academic term has been exceptionally rewarding. We celebrated a record-breaking placement season, with over 80% of our graduating students securing positions in reputed companies, complemented by an impressive average package. Our students have also excelled at national-level competitions and hackathons, bringing accolades to the department.

On the academic front, we have introduced new elective courses in emerging and high-impact domains, ensuring that our curriculum stays aligned with the forefront of technological progress. The patents filed and research articles published by our faculty and students are equally commendable and add to our growing academic legacy.

Our alumni remain one of our greatest strengths, consistently offering their time, expertise, and encouragement. Their continued engagement motivates us to raise the bar and work towards greater accomplishments.

These milestones would not have been possible without the dedication and expertise of our faculty, the commitment of our students, and the guidance of our respected Principal. I extend my heartfelt gratitude to all our stakeholders for their trust and support.

I also wish to place on record my appreciation for the editorial team and faculty mentors, whose efforts and creativity have shaped this edition into a truly remarkable publication.

Let us continue to uphold the proud legacy of our department and institution, as we work together to remain at the forefront of excellence.

Warm regards and best wishes,

Dr. Ketan Badgular

Head of Department, Electrical Engineering

FACULTY INSIGHTS

Happy Independence Day!

On this proud day, we celebrate the 13th edition of Electri.CT, a creative canvas for our department's multi-dimensional talents. We are thrilled to congratulate our 2025 graduates, whose paths we hope are bright and full of electrical ingenuity. We also extend a warm welcome to our newly admitted students, inviting them to join our growing Electrical Department family.

The Electrical Engineering Department of LDCE successfully maintained NBA accreditation status during the past year, with compliance achieved in 2019 and 2022 as part of continuous quality improvement. These accreditations reflect the department's adherence to outcome-based education, robust academic processes, and strong industry linkage. In the last week of this month, the department will host the NBA Expert Committee for an accreditation cycle again and will be showcasing academic facilities, laboratories, faculty achievements, and student projects to reaffirm its commitment to excellence.

We are proud of our updated laboratories, which continue to empower students with hands-on learning, thanks in large part to the dedicated contributions of our alumni. Our faculty also enhanced their expertise through organizing and participating in various Faculty Development Programs.

Our active student chapters have been a major highlight. The BIS Chapter and the IEI Students' Chapter contributed by conducting expert talks and hands-on workshops that help students engage with real-world challenges. These initiatives foster vibrant industry-academia engagement, connecting students with industry trends through workshops and guest talks.

We welcome new ideas to enhance future issues of Electri.CT and thank our stakeholders for their contributions, with special appreciation to our student editorial team.

Wishing you all a joyful Independence Day and an electrifying new term!

— Team Electri.CT

NEW MILESTONE

The year brought moments of pride, new beginnings, and heartfelt goodbyes for our department family. We celebrated the well-deserved promotions of Dr. V. K. Prajapati and Dr. K. A. Bhatt to Associate Professor, honoring their commitment to excellence. Three enthusiastic new faculty members, Dr. Yogesh M. Makwana, Prof. Mahesh. J. Patel and Prof. Jayesh I. Patel joined our ranks, bringing fresh ideas and energy. At the same time, we fondly bid farewell to six valued colleagues — Prof. V. N. Modi, Prof. J. B. Modi, Dr. B. J. Shah, Dr. K. B. Kela, Dr. V. K. Prajapati and Dr. K. A. Bhatt — as they embarked on new journeys at other Government Engineering Colleges.

RESEARCH & DEVELOPMENT

Name of the Faculty	Title of the Paper	Name of the Journal/Conference and month of publication
Dr. K.P. Badgujar	Analysis of Mechanical Losses in a Squirrel-Cage Induction Motor Induced by Different Types of Eccentricity	International Journal of Electrical and Electronics Engineering
Prof. S.N. Shivani	An Approach for Real time Implementation of Charging Shunt Reactor using Point on Wave Technique with Variable Pre-Insertion Resistor	Journal of the Institutions of Engineers (India): Series B
Prof. V.M. Dholakiya	Comparative Impact Assessment of Energy Storage Systems on Frequency Regulation with Various Operating Strategies under ABT	IEEE 1st International Conference on Smart and Sustainable Developments in Electrical Engineering (SSDEE) Organized by Department of Electrical Engineering Indian Institute of Technology (ISM) Dhanbad (28th Feb - 2nd Mar 2025)
Prof. S.M. Patel	A Comparative Analysis of Speed Control of Switched Reluctance Motor (SRM) for Vehicular Applications	International Conference on Modeling, Simulation & Intelligent Computing (MoSiCom) organized at Dubai during 09/02/2025 to 11/02/2025
Dr. K. B. Kela	“Reliability Performance Optimization and Voltage Sag Mitigation for Radial Distribution Systems with Distributed Generation”	GMSARN International Journal

PROFESSIONAL DEVELOPMENT

Workshops / Training Programs :

- 18/02/2025 – Prof. H. N. Raval, along with Ridhdhi Barad and Hetvi Chaudhari, attended a Workshop on My Bharat Portal Outreach at Gujarat University.
- 20/06/2025 – Prof. T. R. Patel participated in a Workshop on AI @ Work: Building AI Awareness & Readiness among Staff, organized by CTE Gandhinagar.
- 17/03/2025 to 22/03/2025 – Prof. B. G. Chaudhari attended an STTP on Intellectual Property Rights at GTU Campus, Chandkheda, Ahmedabad.

Faculty Development Programmes (FDPs) :

- 17/02/2025 to 21/02/2025 – Dr. K.P. Badgujar participated in the FDP “Nurturing Future Leadership Programme” at IIM Kozhikode.
- 10/03/2025 to 14/03/2025 – Dr. V. R. Patel and Dr. B. J. Shah participated in the FDP “Nurturing Future Leadership Programme” at IIM Vishakhapatnam.
- 01/06/2025 to 06/06/2025 – Prof. N. V. Sinha attended the FDP “Empowering Educators through Research and Incubation Excellence and NEP Insights”, jointly organized by GKS, i-Hub & NITTTR at i-Hub, KCG Campus, and NITTTR, RCTI Campus, Ahmedabad.
- 02/06/2025 to 13/06/2025 – Dr. M. R. Vasavada participated in the FDP “Reliability Analysis & Optimization of Modern Power System”, jointly organized by LDCE & NITTTR at NITTTR Extension Center, RCTI Campus, Ahmedabad.
- 30/06/2025 to 04/07/2025 – Prof. M. J. Patel and Prof. A. M. Upadhyay participated in the FDP “Emerging Trends & Practices in Optimization and Sustainable Technology”, jointly organized by GEC Gandhinagar, LDCE & NITTTR at NITTTR Extension Center, RCTI Campus, Ahmedabad.
- 30/06/2025 to 04/07/2025 – Dr. Z. B. Parekh participated in the FDP “Reliability Analysis & Optimization of Modern Power System” at NITTTR Extension Center, RCTI Campus, Ahmedabad.
- 21/07/2025 to 25/07/2025 – Dr. K.P. Badgujar attended a training program on “UG Engineering Accreditation in the Context of New SAR” at NITTTR Bhopal, gaining key insights to enhance curriculum, teaching, and accreditation readiness.

Industry–Academia Meetup :

- 18/06/2025 – Dr. M. R. Vasavada and Prof. R. J. Patel participated in an Industry-Academia Networking Meet organized by CTE at Naroda Enviro Projects Limited – GIDC Naroda, Ahmedabad.

PROFESSIONAL DEVELOPMENT

FDP on “Emerging Trends & Practices in Optimization and Sustainable Technology”:

The Gujarat Extension Centre of NITTTR Bhopal, with GEC Gandhinagar and EED LDCE, organized a two-week FDP from 2nd–13th June 2025 at NITTTR Extension Centre, R.C.T.I., Ahmedabad, under the able mentorship of Prof. (Dr.) J. R. Iyer and coordinated by Prof. (Dr.) K. A. Bhatt, Prof. (Dr.) V. R. Patel, and Prof. (Dr.) M. R. Vasavada, along with faculty from NITTTRB. The program focused on modern optimization methods and sustainable technologies.

STTP on “Reliability Analysis & Optimization of Modern Power System”:

EED LDCE conducted a five-day STTP Coordinated by Prof. (Dr.) V. R. Patel, Prof. H. N. Raval, and Dr. Mihir R. Vasavada, in collaboration with CTE Gandhinagar and NITTTR Bhopal, during 30th June–4th July 2025. The program covered advanced reliability and optimization techniques for modern power systems.



Doctoral Accomplishments:

Name of Faculty	Doctoral Research Details
Prof. V.M. Dholakiya	Completed part-time Ph.D. in April 2025 on “Investigation on Frequency Regulation in Modern Power Grid” under Dr. B. N. Suthar, GTU Ahmedabad.
Prof. M.R. Vasavada	Completed part-time Ph.D. in May 2025 on “Characterization of Industrial Grade HTV Silicon Rubber Insulator for Application in Electrical Insulators” under Dr. Chirag Vibhakar from GTU, Ahmedabad
Prof. H.Z. Amrolia	Completed part-time Ph.D. in May 2025 on “Condition Monitoring of Induction Motor: Exploring Frequency Response Based Approach” under Dr. K.P. Badgujar from GTU, Ahmedabad

FACULTY ACHIEVEMENTS

Electrical Faculty Team Breaks Seven-Year Drought :

The Electrical Engineering Department faculty team has emerged as champions of the LDCE Faculty Tournament, ending a seven-year title drought. Under the captainship of Prof. Bhavik G. Chaudhary, the team demonstrated exceptional skill and spirit. The victory was highlighted by Prof. Mitesh Priyadarshi's outstanding performance, earning him the "Man of the Series" title. This win is a testament to the team's dedication and camaraderie, bringing immense pride to the department and a cherished trophy that will be remembered for years to come.



Mentorship by Dr. Mihir Vasavada :

LDCE students Paridhi Karmakar, Tanay Chaturvedi, and Nandini Sharma have won the Dewang Mehta IT Awards 2025. Mentored by Dr. Mihir Vasavada, the team from the EC Department secured a ₹1 lakh prize for their project, "AI-Powered Drone for Precision Monitoring." The AI-powered drone aids farmers with precise crop monitoring and spraying, showcasing technology's role in sustainable agriculture.



Patents :

Name of Faculty	Patent Title
Dr. K. A. Bhatt Dr. J.R. Iyer Dr. K.P. Badgujar	Patent Granted on "Power Theft Detection in Distribution Network Using NodeMCU, Current Transducers, And Server Integration"
Prof. M.I. Siddiqui Prof. S.M. Patel	Patent granted on "Remote Signal Based Operatable Motorized Tripper Switching Mechanism for Moulded Case Circuit Breaker"
Dr. K P. Badgujar	Patent published on "System and method for frequency response measurement of electrical machines using square wave and Fourier Transformation"

GUIDING LIGHT

• The Journey of Prof. Balwantray Jatashanker Dave

Born on January 9, 1933, Balwantray Jatashanker Dave was a Professor of Electrical Engineering. He earned a B.E. from Gujarat University (1956) and an M.Tech. from I.I.T., Bombay (1969). His career included positions as a lecturer at A.V.P.T. Institute, Rajkot, and an assistant lecturer at Birla Engineering College. From 1969 to 1984, he was a Professor and Head of Electrical Engineering at Lukhdhirji and L. D. Engineering Colleges. He also served as the In-charge Principal at L.D. Engineering College.



In addition to his academic roles, he has held administrative positions such as Principal of Government Engineering College, Modasa, from 1984-1986, and Officer on Special Duty in the General Administration Department, Government of Gujarat, where he was tasked with introducing computerization into government administration. In this capacity, he was instrumental in using personal computers and laser printers to produce the Draft Annual Plan. He also received special thanks for his help in computerizing the election machinery and the prompt and accurate display of election results to the public.

Throughout his career, Professor Dave has received several recognitions, including a Special Award at the 'DO-IT-YOURSELF EXHIBITION' in 1971 and the Federation of Gujarat Mills and Industries Award in 1975 for his work in mechanical engineering. The latter recognized him for being the first in India to design and fabricate a transistor clock, a sub-miniature synchronous motor with an integrated gearbox, a servo-controlled Electrical Discharge Machine, and automatic pinion and gear cutting machines. He is also credited with contributing to the development and growth of horology industries in Gujarat State, leading the state government to entrust him with preparing a report on "Horology Industries in India. Professor Dave is a member of several professional bodies, including the Indian Cryogenic Council and the Biomedical Engineering Society of India.

STUDENT ACHIEVEMENTS

• VEHICLE TRACKING WITH SMART CONNECTIVITY :



A team of final-year Electrical Engineering students—Krish Sadhu, Darshit Vaghani, and Aryan Raiyani—developed an innovative, low-cost real-time vehicle tracking system. Costing less than ₹1,500, it features GNSS tracking and geo-fencing. The project demonstrates the students' ability to create practical solutions for real-world problems like vehicle theft, highlighting the department's focus on technological innovation and social impact.

• HACK THE SPRING :

Congratulations to the team of Susmita Mallick, Rudra Bhatt, Om Gayakwad, and Het Dharsandiya from LDCE's Electrical Engineering Department!

They secured the runner-up position at a recent Hackathon hosted by GEC Gandhinagar. Their project, developed under the guidance of Dr. Jyoti Iyer and Dr. K.A. Bhatt, was praised for its effort, teamwork, and exceptional problem-solving



• IGNITE 3.0 DEBATE COMPETITION :

Congratulations to our Electrical Engineering students for excelling at Ignite 3.0 (PMI) 2025-26 debate competition!

Team A—Aditya Acharya, Prerak Doliya, and Vatsal Prajapati—won first prize with a trophy and medals, while Team B—Devarsh Jani, Shiv Pandya, and Munir Hussain—represented the department commendably.

Debating topics like “Is voting compulsory in India?” and “Should we supply weapons in a war?”, all participants earned certificates. This achievement reflects their strong technical knowledge and confident communication.



STUDENT ACHIEVEMENTS

• BHARAT & ITS SCIENTIFIC GLORY :



Harsh Rajput and Krish Sadhu from LD College of Engineering represented Gujarat at the "Bharat & Its Scientific Glory" national finals in New Delhi. Their project, "Yantra Vidya," on ancient Indian mechanical systems, was a Top 30 finalist from over 500 teams. At the Grand Finale, they received a ₹5,000 cash prize from Shri Tejasvi Surya for their work, which bridged historical concepts with modern science. This is a proud moment for LDCE and Gujarat.

• GTU VENTURES INNOVATION :

Rahulsinh Dodiya, a final-year student, won the Student Start-up Award at the GTU Ventures Sankul Awards 2025. His company, BeeRobokids Innovations, teaches robotics, coding, and AI to children. The start-up plans to establish STEM training centers across Gujarat. This prestigious award from Gujarat Technological University recognizes Rahulsinh's commitment to innovation and education, bringing great pride to our institution.



• PUBLIC SPEAKING :



Our department's 5th semester student, Nishant Chauhan, has once again brought pride to the institute with his remarkable achievements in public speaking. He was selected for the district-level Youth Parliament, where his confident expression and logical clarity stood out. In addition, Nishant reached the semifinals of the Times of India Public Speaking Contest, earning him a feature on the front page of the Times of India — a testament to his growing presence in youth forums.

STUDENT ACHIEVEMENTS

• NIRMA PITCHING COMPETITION :



Team Abhimanyu, composed of LDCE students, proudly represented the college at the Nirma University Pitching Competition. Their project, AURA, is a cost-effective robotic solution for precision farming. The team's unique on-demand pesticide mixing system helped them secure a spot in the Top 5. This experience boosted their confidence and showcased their dedication to creating affordable technology with a strong social impact.

• SSIP 2.0:

Name of Start up	Name of Students	Name of Faculty Mentor	Sanction Year	SSIP Fund Sanctioned
SRIO	Harshil Panchal (EE)Harsh Chauhan (EE)Bhavya Thakkar (BM)	Dr. Mihir Vasavada	February' 2025	40000
Polyvend	Dev Parmar (EE)Happy Chundawat (EE)Suyash Mishra (EE)Kesar Kaliya (EE)Anjali Mistry (EE)Krish Mevada (IC)	Dr. Mihir Vasavada Prof. Fedrik Macwan	February' 2025	40000
Cloud cost Automation	Krish Sadhu (EE)Aryan Raiyani (EE)Darshit Vaghani (EE)Vardhman Solanki (EE)Ayush Pathak (IT)Niket Vaishnav (EE)	Prof. Fedrik Macwan Dr. Kunal Bhatt Dr. Jyoti Iyer	February' 2025	60000

VISITS

• MUNDRA VISIT



On April 3–4, 2025, 108 students from the Electrical Engineering Department at L.D. College of Engineering visited Mundra, Gujarat, as part of Project Udaan by the Adani Foundation. The group included 13 students from the 4th semester and 95 from the 6th semester, accompanied by faculty members Prof. B.G. Chaudhari, Prof. J.B. Modi, Prof. Z.B. Parekh, and Prof. B.J. Shah. The visit

aimed to give students hands-on exposure to large-scale industrial operations such as port logistics, power generation, and renewable energy, connecting their classroom learning to real-world practices. The group's journey began early on April 3, with the students arriving at the Shanti Vihar Guest House by 12:30 PM. They were welcomed by Adani Foundation representatives and received an orientation on safety and visit protocols before being served lunch. This marked the beginning of a structured and insightful industrial experience.

• JOHNSON CABLE INDUSTRY VISIT

The BIS Club of the Department of Electrical Engineering organized an industrial visit for 50 students from the 4th and 6th semesters to Johnson Cables Unit 2, Chhatral GIDC, Gujarat on February 21, 2025. The objective was to provide insights into the manufacturing, testing, and certification of electrical cables. Students learned about cable classification, quality parameters, and the importance of BIS certification. They toured the manufacturing unit, observing processes like wire drawing, insulation, and sheathing. The tour also included the testing and quality control section, where cables are subjected to rigorous assessments. The visit concluded with a sponsored lunch from BIS, where students engaged in discussions about career prospects.



INDUSTRY INTERACTION

On 04/02/2025, Keystone Global provided Foreign Education Counselling to pre-final year students, guiding them on study-abroad opportunities. (Coordinator: Prof. M. I. Siddiqui)



On 18/02/2025, students visited Green Hawk Mobility for an industrial exposure program covering electric mobility innovations. (Coordinator: Dr. C. D. Upadhyay)

On 15/03/2025, the department received three electromagnetic relays from GSECL Sikka and three numerical relays from GETCO as part of a CSR initiative, facilitated by alumnus Mr. Sagar Vegad and arranged through D2D Jamnagar students now studying at LDCE. (Coordinator: Dr. J. R. Iyer)



On 22/03/2025, faculty and students participated in the Vejalpur Startup Festival 2.0 at JADE Banquet, Ahmedabad, showcasing projects, networking with industry experts, and exploring entrepreneurial opportunities. (Coordinators: Dr. K. A. Bhatt & Prof. H. N. Raval)

On 28/06/05, Hitachi Hi-Rrel Power Electronics Pvt. Ltd, Gandhinagar donated power Electronics Display unit containing various power electronics related circuits, components and accessories that can be used for demonstration to students while teaching.



On 11/07/25, The department had an interaction with officials from Transformers & Rectifiers Pvt. Ltd., Ahmedabad to explore collaboration opportunities, resulting in placement of PG students for their dissertation with a paid stipend by T&R.

EVENTS

• REPUBLIC DAY



On Sunday, January 26, 2025, L.D. College of Engineering celebrated Republic Day with a grand flag-hoisting ceremony on the Civil lawn. The event was a vibrant display of patriotic fervour and cultural richness. Principal Dr. N.N. Bhuptani hoisted the national flag, followed by an inspiring speech from Guest of Honor Shri Govind Nadkarni, a distinguished alumnus. Shri

Nadkarni, honored as "Engineer of the Year," emphasized the core values of our Constitution and national unity.

The ceremony featured a parade by NCC cadets and NSS volunteers, and a classical dance performance by the Dhanak club, celebrating India's heritage.

Additionally, students showcased their department magazines, with the 12th edition of the Electrical department's magazine, "Electri.CT," being launched. The entire celebration underscored the importance of working together to build a stronger, more prosperous India.

• IEI WORKSHOP

On January 29, 2025, the IEI Students' Chapter at LDCE hosted a "Hands-on Workshop on ARM Microcontrollers." Dr. K.A. Bhatt and Prof. F.A. Macwan led the session, which included a comparison of Arduino and ARM microcontrollers. The workshop featured a live TinkerCAD demonstration and a practical session where students worked directly with Arduino and NodeMCU to interface hardware components. This provided them with real-world experience in embedded systems and IoT applications. The event concluded with a Q&A and a quiz, reinforcing the chapter's commitment to providing practical, technical excellence.



EVENTS

• UPSC SEMINAR



On March 4, 2025, a UPSC preparation seminar was held at L. D. College of Engineering, organized by DICS. The event aimed to inform engineering students about civil service career opportunities. Commissioner Abhinav Shah attended, and experts from DICS provided guidance on the exam structure, study strategies, and balancing academics with preparation. Prof. H.N. Raval presented the principal with a token of appreciation and shared DICS resources like templates with QR codes for online lectures. The

enthusiastic student participation highlighted the growing interest in civil services and LDCE's commitment to supporting diverse career paths.

• Dr. BALASUBRAMANYAM'S VISIT

On March 5, 2025, the Electrical Engineering Department at LDCE had the privilege of a visit from Dr. Balasubramanyam, a retired professor from IIT Delhi. He conducted an engaging session with the electrical engineering students, sharing valuable insights from his extensive academic journey and rich research experience. Dr. Balasubramanyam's talk was highly inspiring, offering students practical knowledge and insightful career advice. The interactive nature of the session kept students curious and actively involved throughout. The event proved to be a memorable and enriching learning experience for all attendees.



EVENTS

• BLOOD DONATION

On March 20, 2025, the NSS unit at LDCE organized a highly successful blood donation camp. The event drew enthusiastic participation from students, faculty, and staff, showcasing the community's compassion. Donors met specific criteria—a minimum weight of 50 kg, a hemoglobin level of 13+, and an age of 18 or above—and were given five notebooks as a token of appreciation, along with snacks and a recommended rest period. The exceptional turnout surpassed expectations, promoting the importance of blood donation and fostering a strong sense of social responsibility and community unity at LDCE.



• PROJECT EXPOSURE (DESIGN THINKING)



In May 2025, the Electrical Engineering Department hosted the Design Thinking Project Expo 2025, showcasing innovative solutions developed by students under the Design Thinking (Semester 2) and Design Engineering (Semesters 4 & 6) courses. Guided by faculty members and coordinated by students. The participants applied a structured design thinking approach to address

real-world challenges through creative prototypes and working models. Principal Dr. Nilay N. Bhuptani and Head of Department Dr. Jyoti Iyer encouraged the students during the expo. This expo reflected the department's focus on fostering innovation, practical problem-solving, and industry-oriented thinking among budding engineers.

EVENTS

- **SESSION BY Dr. K. P. BADGUJAR SIR**



Dr. K.P. Badgujar conducted a knowledge-sharing session on "AI & Education: A Partnership for Progress, Not Peril." He discussed the evolving relationship between AI and the academic world with faculty from Government Polytechnic, PN, and the Electrical Engineering Department at LD College of Engineering. Dr. Badgujar emphasized AI's potential to enhance educational practices while

also stressing the need for ethical integration. He encouraged educators to view AI as a supportive tool rather than a threat, fostering a collaborative ecosystem between technology and teaching. The sessions inspired meaningful dialogue on future innovations in education.

- **Dr. PRASANTA KUNDU**

On May 5, 2025, the Electrical Engineering Department at LDCE was honoured to host Dr. Prasanta Kundu, Associate Professor from SVNIT, Surat. During his visit, Dr. Kundu engaged warmly with both faculty members and students. He shared valuable insights on research and academics, encouraging students to prioritize practical learning and innovation.

Faculty members also had a fruitful discussion with him regarding current trends and future opportunities in engineering education, making it a highly beneficial interaction for the department.



EVENTS

• ORIENTATION 2025



On June 19, 2025, the Electrical Engineering Department at LDCE held an orientation program for its new students. Led by faculty and guided by student coordinators, the event was a collaborative success. Anchors Manan Trivedi and Susmita Mallick hosted the program, which featured a detailed presentation on the department, various college clubs, R&D activities, and placement details.

of encouragement. The orientation included a tour of the campus and department. Students Rudra Bhatt, Neha Chaudhary, and Aditya Singh meticulously planned the event, while a team of their peers managed the logistics. Dhwanit Chauhan, a member of the Vox Populi club, ensured the smooth flow of the orientation from start to finish. The lively decorations and fun activities were managed by Sarjan Gajjar, Yash Desai, Neel Chudasama, Hem Shah, Dev Parmar, and Happy Singh. This collaborative effort from students and faculty created a welcoming and informative experience for the incoming students.



EVENTS

• FOUNDATION DAY

On June 20, 2025, L.D. College of Engineering celebrated its Foundation Day with a Tree Plantation Drive. Organized jointly by the NSS LDCE and the LAA, the event's theme was "Let's celebrate our legacy by nurturing the future." Students, faculty, and staff actively participated, planting saplings at the Civil Lawn and the Electrical Department Garden to promote environmental awareness. The presence of Principal Dr. Nilay Bhupatani and Prof. Hemant Raval motivated the participants. The event successfully honored the college's history while fostering a sense of community responsibility for a greener campus.



• IEI ORIENTATION



On July 23, 2025, the Electrical Engineering Department at LDCE organized an IEI Orientation Program for new students. Led by Prof. A.M. Upadhyay and Prof. (Dr) C.D. Upadhyay, the event included a presentation on IEI activities, workshops, and industrial visits. Faculty members like Dr. J.R. Iyer motivated students to utilize these opportunities. The managing team, including Rudra Bhatt and Susmita Mallick, ensured a

smooth event. The program successfully introduced students to IEI's role in personal development and career benefits, highlighting the importance of practical skills in embedded systems and IoT.

EVENTS

- **Dr. D. U. PANCHAL**



An expert lecture on "Automotive Aerodynamics" was delivered to students of the M.E. EVT program by Dr. Dhruv Panchal. The session provided a deep dive into how air resistance and airflow affect vehicle performance, fuel efficiency, and stability.

Dr. Dhruv Panchal explained key concepts such as drag reduction, lift management, and the role of aerodynamic design in modern electric vehicles and high-performance cars. The lecture gave students a clear understanding of the practical applications of aerodynamics in the

automotive industry and how these principles are critical for developing more efficient and safer vehicles. It was a highly informative and engaging session for all the attendees.

- **BIS LDCE**

The Bureau of Indian Standards (BIS) held an orientation program for its Limited Departmental Competitive Examination (LDCE) on August 1, 2025. Hosted at the Electrical Engineering Department's Chanakya Hall, the event was designed to help employees prepare for the internal career advancement opportunity. The program, which included a quiz and a PPT presentation competition, featured guidance from Shri Rahul Pushkar and Shri Sandip Chavda. The LDCE assesses a candidate's knowledge of BIS procedures and technical skills, serving as a platform to recognize the commitment and potential of staff members for higher positions within the organization.



PLACEMENT DETAILS

Name of company	No of Students	Package (₹ in Lakh)
Micron	4	13.25
Meditab	1	6.09
Torrent Power LTD	14	4.5
Academor	8	6 to 8
ATUL LTD	11	5
Adani Group	17	6.5
AMNS	14	6
Suzuki Motor Gujarat PVT PTD	14	7
TCS	1	7
AMULFED Dairy	5	7.5
GNFC	6	18.58
Aditya Birla (GRASIM)	1	5.5
Hitachi Energy	1	6
Kent Egeineering PVT LTD	3	5

TOP SCORERS

SEM-I



Keny Patel
CPI : 9.79

SEM-I



Neel Chudasama
CPI : 9.58

SEM-III



Kishan Paghdal
CPI : 9.61

SEM-III



Margi Thakkar
CPI : 9.52

TOP SCORERS

SEM-V



Madhav Raval
CPI : 9.43

SEM-V



Ahmed Dhroliya
CPI : 9.00

SEM-VII



Pooja Patel
CPI : 8.88

SEM-VII



Jaykumar Pancha
CPI : 9.08

SEM-VII



Rana Akshay
CPI : 8.88

Unscramble The Chaos

1. EDON -
2. REWPO -
3. ZERTH -
4. TEREMMA -
5. BOMUCOL -
6. FORKCHIF -
7. TORCUNID -
8. CADPEMINE -
9. SARTNISTTOR -
10. REFROMTSNARM -

Hints

1. A point of connection between two or more circuit elements.
2. The rate of energy transfer in a circuit.
3. Unit of frequency (cycles per second).
4. Device to measure electric current.
5. SI unit of electric charge.
6. Scientist who gave the 2 most important laws.
7. Coil storing energy as a magnetic field.
8. Total opposition to AC in a circuit.
9. Device that amplifies or switches signals.
10. Device that transfers electrical power from one place to other.



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Anjali Mistry
Semester-5



Prajapati Meet
Semester-3



Aggarwal Paawan
Semester-3



Urvashi Odedara
Semester-3



Paragi Patel
Semester-1



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Semester-3



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Semester-3

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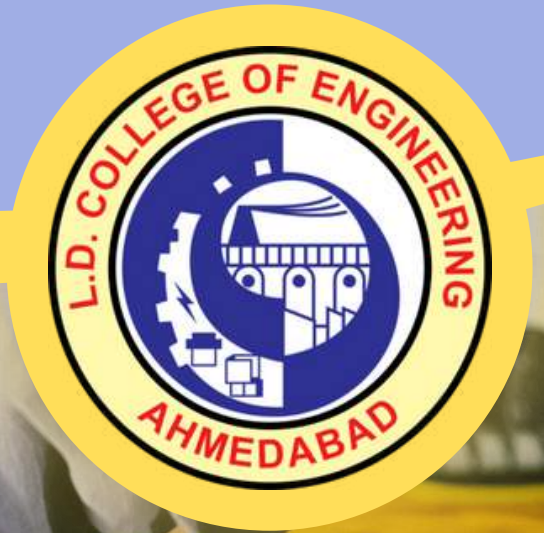
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