

# L.D. COLLEGE OF ENGINEERING

## TECHPULSE



**JANUARY-MARCH  
2025**

# VISION

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To contribute for sustainable development of nation through achieving excellence in technical education and research while facilitating transformation of students into responsible citizens and competent professionals

# MISSION

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# MAJOR EVENTS



## Global Alumni Convention 2025



L.D. College of Engineering hosted the Global Alumni Convention (GAC 2025) on 4<sup>th</sup> January 2025, bringing together distinguished alumni to share their professional journeys. The event featured keynote speeches, including one by Ms. Pavni Diwanji, a 1990 Computer Engineering alumna known for her work in Java development and leadership roles at Google and Facebook. The event also included department-level alumni meets, with the IC and Rubber Technology departments hosting prominent alumni. Notably, the Plastic Technology Department welcomed Dr. Mamta Saiyad, Associate Professor at Nirma Institute of Technology and developer of lightweight astronaut suits with NASA, and Ms. Colina Dutta, a 2006 alumna who transitioned to the medicine field and is currently developing oncological drugs. Both alumni shared their inspiring journeys with students, fostering valuable discussions and engagement.

## Blueprint for Engineers

A one-day seminar on "Blueprint for Engineers" was jointly organized by the Environmental Engineering Department, and Paryavaranmitra dated 7<sup>th</sup> March 2025. Total 90 UG and PG students participated in the seminar.



## Outstanding Blood Donor



L D College of Engineering was honored with the Outstanding Blood Donor Organization award by the Indian Red Cross Society on 7<sup>th</sup> January 2025, in the presence of Honorable Chief Minister Shri Bhupendrabhai Patel. The institute has been consistently receiving this award for several years, recognizing the remarkable efforts of its students and faculty members in promoting and participating in blood donation drives.



## RCC Detailing Essentials

The Applied Mechanics Department of LDCE organized an expert talk on "Importance of Detailing in Various RCC Elements" by Mr. Kunal Talsaniya on 28<sup>th</sup> February 2025, under the ICI and IEI student chapters. He provided valuable insights into ductile detailing as per IS 13920:2016, common errors in RCC practices, and their impact on structural safety. The session, coordinated by Prof. Kamini A. Parmar, Prof. Dr. Poonam I. Modi, and Prof. Bansal R. Patel, concluded with an interactive quiz and felicitation of winners.

## Disaster Management

The Applied Mechanics Department of L.D. College of Engineering, in association with the Gujarat Institute of Disaster Management (GIDM), organized a 3-day workshop on "Disaster Management" from 5<sup>th</sup> to 7<sup>th</sup> March 2025, under their MoU with GIDM. The workshop featured expert sessions on topics like the basics of disaster management, recent advancements in mapping and mitigation, career prospects, and the use of GIS and GPS, along with hands-on training in fire safety techniques and disaster mitigation planning. It was coordinated by Prof. Dr. Poonam I. Modi, Prof. Bansal R. Patel, and Prof. Shalini R. Singh, with Major Dr. C. S. Sanghvi as the convener.



## Alumni Insights

Mr. Harsh Patel from Prima Automation inspired students of IC to explore entrepreneurial opportunities in engineering technology. Alumni Mr. Harshad Parmar (1992), Mr. Rizwan Mansuri (2002), and Mr. Abhinav Dave (1993), who traveled from the United States, emphasized the importance of global exposure, networking, and continuous professional growth.





## Events in Chemical

In February 2025, the Chemical Engineering Department organized several key events at LDCE. On 11<sup>th</sup> February, Mr. Lalit Yadav, Scientist C and Deputy Director at BIS, delivered an expert session on "Environmental Management" and a BIS Quiz Contest for 4<sup>th</sup> and 6<sup>th</sup>-semester students. On 20<sup>th</sup> February, Shri Bharat Jain conducted an expert lecture on "Cleaner Production" for 4<sup>th</sup>-semester students. On 27<sup>th</sup> February, a one-day training program on "Industrial Energy Efficiency and Decarbonization using a Virtual Reality-based Digi-Twin Training Simulator" was held at Aryabhata Hall in collaboration with the National Productivity Council (NPC) and GIZ, Germany.

## Wellness Activities

The S&H Department organized several engaging activities in early 2025 to promote student well-being and creativity. On 3<sup>rd</sup> March, 42 students participated in a Yoga Day celebration, focusing on physical well-being and mental relaxation, coordinated by Dr. Dharitri Gohel. Creativity Day on 1<sup>st</sup> March saw 61 students exploring various creative tasks like poetry, sketching, and storytelling. On 14<sup>th</sup> February, 200 students participated in a Group Reading activity to improve reading habits and comprehension, coordinated by Dr. Apexa Dharankar and Dr. Dharitri Gohel. The 'Pariksha Pe Charcha' live screening on 10<sup>th</sup> February allowed 122 students to gain insights from Prime Minister Narendra Modi on exam stress management coordinated by Dr. Apexa Dharankar and Dr. Dharitri Gohel. Additionally, on 19<sup>th</sup> February, 55 students visited the L.D. Institute of Indology to explore India's rich heritage of knowledge systems and manuscripts, coordinated by Dr. Dharitri Gohel.



## Technical Seminars

The Textile Department organized a technical seminar on "Indian Standards on Medical Devices" for Biomedical Engineering and Textile Technology students on 21<sup>st</sup> January, 2025. Additionally, Dr. H. J. Jaiswal and students participated in the "Youth for Nation" meeting held on 23<sup>rd</sup> January 2025, at Gujarat University Ground, Ahmedabad.



# DEPARTMENTAL ACTIVITIES



**Applied Mechanics Department**  
**L. D. College of Engineering, Ahmedabad**  
in Association with Sumitomo Rubber Industries, Ltd.  
has organized an Expert Lecture on

**SUMITOMO ULTRA HIGH DAMPING TECHNOLOGY**  
**Seismic Devices – Building Dampers & Ground Isolators**

Date: 13/03/2025      Time: 1.30 p.m. (Indian Standard Time)

<b>Patron</b> Dr. Nilay N. Bhuptani Principal L. D. College of Engineering Ahmedabad	<b>Coordinators</b> Mr. Tan Juay How Sumitomo Global Sales & Marketing Network Representative & Tejas M. Gajjar PG Student Applied Mechanics Department L. D. College of Engineering Ahmedabad
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**Convener**  
Major Dr. Chaitanya S. Sanghvi  
Professor & Head  
Applied Mechanics Department  
L. D. College of Engineering  
Ahmedabad

**Dr. Andri Setiawan**  
Postdoctoral Researcher  
Universitat Politècnica de Valencia (Spain)  
Global Chief Technical Advisor, Sumitomo Global Engineering Team

 YEARS OF LDCE

## Sumitomo

L. D. College of Engineering, in association with Sumitomo Rubber Industries Ltd. (Japan), organized an online expert lecture on "Sumitomo Ultra High Damping Technology: Seismic Devices" on 13<sup>th</sup> March 2025. The session was delivered by Dr. Andri Setiawan, a Postdoctoral Researcher at Universitat Politècnica de València and Global Chief Technical Advisor for Sumitomo.

## Tech Sessions

The Electrical Engineering Department of LDCE organized several key activities in January 2025, including a comprehensive electrical inspection of game zones across Ahmedabad to assess safety and compliance. An IEEE awareness program and EV Minor course farewell were held on 4<sup>th</sup> January featuring expert talks from IITRAM and industry professionals. Knowledge-sharing sessions on "AI & Education" by Dr. K. P. Badgujar were



conducted on 6<sup>th</sup> and 8<sup>th</sup> January for faculty members. The BIS Club organized an expert session on IS Codes for Electric Mobility and Cables on 23<sup>rd</sup> January, led by Scientist Trinath from BIS Mumbai. An NBA Accreditation Awareness Session was held on 30<sup>th</sup> January, emphasizing the importance of accreditation and outcome-based education. Additionally, Prof. F. A. Mackwan conducted a hands-on session on Arduino and NodeMCU, and department-level scrutiny was carried out to evaluate student innovation proposals under the SSIP 2.0 scheme.



# DEPARTMENTAL ACTIVITIES



## Tech Awareness

In early 2025, the Computer Engineering Department at LDCE hosted several important events. Faculty members served as expert speakers at the Faculty Development Programme organized by the Knowledge Consortium of Gujarat (KCG) from 6<sup>th</sup> to 11<sup>th</sup> January covering topics like Internet Etiquettes, Research Proposal Writing, Google Utilities, and more. On 31<sup>st</sup> January, the department organized the SSIP Orientation 2025, guiding students on startup journeys and project development. The BIS Club hosted a session

on Cyber Safety & Standards Awareness on 18<sup>th</sup> February, with Karishma Chaudhary, Police Sub-Inspector from the Cyber Crime Branch, addressing cybercrime and digital security. Additionally, the MLSA-LDCE chapter held its orientation on 25<sup>th</sup> February, introducing students to version control and upcoming technical sessions.

## Felicitation Program

A Felicitation Program was held on 10<sup>th</sup> March 2025, to honor students for their achievements in academics, sports, art, and literature, in loving memory of late Prof. Kruti Joshi. Dr. Suryakant Gupta, Scientific Officer at the Institute for Plasma Research, was invited as the Guest of Honor to make the event even more special.



## Company Visit

Prof. Bharati Basantani, Head, Plastic Technology Department, visited Lumax Industries in Sanand on 10<sup>th</sup> January 2025, where she met with the HR team to discuss opportunities for industrial visits, internships, and placements for students.

## Scholarship Check

MYSY team of LDCE from the mechanical department have carried out verification of more than 1000 students in PMSSS, MYSY and CMSS schemes of the government for scholarships in 2024-25.



# DEPARTMENTAL ACTIVITIES

## Expert Lecture

An expert lecture by Mr. Yash Sadavrati, Environment Engineer, Environmental Management Centre Pvt. Ltd. on the topic of Life Cycle Assessment was arranged on 6<sup>th</sup> March 2025 (Thursday). Around 85 UG and PG students attended the lecture.



## Expert Engagements



Several expert lectures were organized at LDCE in early 2025. Shri Milan Joshi from UOP delivered a session on "Engineering Work Process" on 3<sup>rd</sup> February, followed by Dr. Kinjal Shah's lecture on "Implementation of Green Chemistry for Pollution Control" on 5<sup>th</sup> February. On 6<sup>th</sup> February, Dr. A. B. Pandit, VC of ICT Mumbai, delivered the Shirish Parikh Memorial Lecture on "Enterprise Management and Sustainability," organized by IChE Ahmedabad Regional Center with the LDCE student chapter. Additionally, Ms. Preeti Prabha from the Bureau of Indian Standards delivered an expert talk on "Paint and Varnishes" for 4<sup>th</sup> Semester students on 7<sup>th</sup> January.

## Automotive Innovation

Expert talk on "Role of Innovation in Automotive Industry" by Mr. Shoaib Nagamiya, Chief Designer Stellantis, held on 29<sup>th</sup> January 2025, for BE 4<sup>th</sup> Semester Mechanical and Robotics & Automation students at Mechanical Engineering department.



## Safety in Industries

## Hands-on Session

A Hands-on session was arranged on the topic "Outcome based Assessment" on 1<sup>st</sup> February 2025 at Bhaskaracharya Hall, EC department. Session was taken by Prof. M.Y.Patil, Asso. Professor, Mechanical Engineering, LDCE, Ahmedabad

The Environmental Engineering department had arranged an expert lecture on "Safety in Industries" by Mr. Akash Tikhe, Safety Environmental Manager, Baxter Pharmaceutical Pvt. Ltd dated 17<sup>th</sup> February 2025. Total 95 undergraduate students attended the lecture.



## Engineering Design with SolidWorks CAD & CAM

The Department of Automobile Engineering at L.D. College of Engineering organized a three-day hands-on training on "Engineering Design with SolidWorks CAD & CAM" in collaboration with Sopan Institute of Engineering and Design, from 20th to 22nd February 2025. The training, aimed at 6th-semester students, saw the participation of 20 students from the automobile department. The event was coordinated by Prof. K. V. Vaghela under the guidance of Dr. R. J. Jani, Head of the Department



## RBD Engineering Pvt. Ltd

An industrial visit to RBD Engineering Pvt. Ltd. was arranged and coordinated by Prof. Bhavik Kadiya on 19th February 2025. Forty-two students from the automobile department visited and explored the manufacturing facility.

## Aira Euro Automation Pvt. Ltd

On 27th February 2025, BE 6th Semester students of the I.C. Department, supported by BIS, organized an industrial visit to Aira Euro Automation Pvt. Ltd. in Narol, Ahmedabad. The visit provided students with valuable insights into automation technology, allowing them to witness the design and implementation of automation systems firsthand. The following day, 28th February 2025, the department hosted a workshop on patent drafting, led by Ms. Preeti Chothani, an expert in Intellectual Property Rights and an Indian Patent Agent.



## Kotarpur Water Treatment Plant

An educational site visit to the Kotarpur Water Treatment Plant was organized for B.E. Semester VI students on Saturday, 1st March 2025. The visit was guided by Prof. J.P. Modi, Prof. C.N. Bhavsar, Prof. P.K. Lalwani, and Dr. S.B. Jha.

Environmental Engineering Department sem-6 students (76 numbers) visited Kotar Water Treatment Plant (650 MLD), Ahmedabad dated 15-02-2025 to understand the various water treatment processes.



# INDUSTRY INTERACTIONS



## Indo-German Tool Room (IGTR)

The Mechanical Engineering Department organized a two-day industrial visit for 4th-semester students to Indo-German Tool Room (IGTR), Vatva, Ahmedabad, on 20-21 February 2025. Equipped with the latest European machines, IGTR showcased various CNC machine tools, CMM machines, KUKA welding robots, plastic injection moulding, measuring instruments, and 3D printing. The visit was coordinated by Prof. (Dr.) A.G. Momin, Prof. G.N. Sutaria, Prof. (Dr.) D.K. Patel, and Prof. S.B. Shah.



## Advanced Software Testing

The Information Technology Department organized several events in early 2025. On 20th February, Mr. Bhavik Vora, Associate Director at eInfochips, delivered an expert talk on "Advanced Software Testing" to 80 6th-semester students, coordinated by Prof. Pradip Patel. On 25th February, an industrial visit to eInfochips was arranged for 42 6th-semester students, focusing on software testing and IoT technologies.

This visit was also coordinated by Prof. Pradip Patel, with participation from four faculty members. On 3rd April 2025, 40 students from BE Sem 6, 4, and MCA 2 visited eSparkBiz, Ahmedabad, for an industrial visit, coordinated by Prof. Alka Patel, with faculty support from Prof. Shital Solanki, Prof. Swati Patel, and Prof. Vidisha Thakkar. The visit aimed to provide exposure to real-world IT applications and emerging technologies.

## Astral Pipes

An industrial visit to Astral Pipes, Santej, was organized for BE 4th-semester students on 5th February 2024, offering valuable industry exposure and insights into modern manufacturing processes.

Plastic Technology students of the 4th and 6th semesters, accompanied by Prof. Hetal Shah, visited Astral Pipes Ltd., Santej, on 5th February 2025 under the BIS Club. On 7th March 2025, the students, along with Prof. Kintu Jain, Prof. Hetal Shah, and Prof. Stuti Shah, visited Ankit Plastics, Kuha, Kathwada, a leading manufacturer of plastic agricultural products.

## Overview of the Product Development Cycle

The EC Department organized an Expert Talk on "Overview of the Product Development Cycle" by Shri Prasanna Shah, former chip designer at Intel, on 24th January 2025 at Bhaskarcharya Hall, LDCE. The session, coordinated by Prof. Seema Gonsai, was attended by 60 BE students and faculty. On 19th February 2025, the department hosted another Expert Lecture on "Story of Silicon Valley: Milestones in Semiconductor Industry" by Prof. Anurag Lakhlani, coordinated by Dr. Sanjay Prajapati. Around 80 BE and ME students, along with faculty, participated. Additionally, an industrial visit to e-infochips was arranged for 6th-semester EC students on 14th February 2025.





# INDUSTRY INTERACTIONS

## GreenHawk Mobility

On 15th March 2025, the Electrical Engineering Department received electromagnetic and numerical relays from GSECL Sikka and GETCO for final-year students. The department also organized an industrial visit to GreenHawk Mobility on 18th February 2025, with 32 students, and to Johnson Cables on 21st February 2025, with 50 students.



On 5th March 2025, Dr. Balasubramanyan, retired IIT-Delhi professor, shared insights with 30 students. Additional events included a UPSC/GPSC guidance session by Abhinav Shah on 4th March and participation in the Vejalpur Startup Festival 2.0 on 22nd March, coordinated by Dr. K.A. Bhatt and Prof. H.N. Raval.

## KBM Soil Laborator

On 21st March 2025, the Applied Mechanics Department organized a visit to KBM Soil Laboratory for M.E. Civil Geotech students. The visit was attended by 25 students and coordinated by Prof. Dr. M.V. Shah and Prof. S.R. Singh.



## Maxxis Tyres

The Rubber Technology Department arranged an industrial visit to Maxxis Tyres, Santej, on 15th February 2025, for 50 B.E. and M.E. students, coordinated by Prof. B.D. Patel and Prof. S.J. Padhiyar. Several technical talks followed, including one at Acrosil Products Pvt. Ltd. on 5th February, coordinated by Prof. A.D. Bhatt, and another at Flextron Rubber Pvt. Ltd. on 6th January, coordinated by Prof. S.J. Padhiyar.

Other talks took place at BKT Tyre (23rd February), Rubber King Tyres (1st March), and Sanvi Rubber Products (3rd March), with participation ranging from 10 to 15 students each. Dr. R.N. Desai coordinated a talk at CEAT Tyre Ltd. on 25th March.





# FACULTY ACHIEVEMENTS

## **Prof. Dr. Yogesh J. Chauhan**

Delivered expert sessions on "Structural Analysis and Design using CSI Etab" at GTU, attended by over 60 participants.

## **Prof. S.M. Patel**

Patent granted for "Remote Signal Based Operable Motorized Tripper Switching Mechanism" on 21st February 2025.

## **Dr. Poonam I. Modi**

Delivered expert talk on "Diagnosis of Distress in RCC & Masonry" at GIDM's residential training on earthquake risk reduction.

## **Prof. Swati Saraswat**

Honored by Ishrae President and members for her contributions to the Ishrae Student Chapter at L D College of Engineering.

## **Dr. M. D. Chaudhari**

Delivered expert talks on "Welding Metallurgy" and "Phase Diagram" at various institutes in February and March 2025.

## **Prof. Samir B. Shah & Dr. Komal G. Dave**

Prof. Samir Shah completed Ph.D. on "Ultrasonic Consolidation Method" under Dr. Komal Dave's guidance in March 2025.

## **Prof. Nidhi Kanani**

Winner of Women's Badminton Tournament at LDCE as part of Women's Day celebrations.

## **Prof. Vandana Trivedi**

First Runner-Up in Women's Badminton Tournament at LDCE

## **Dr. Manish Thakker**

Supervised Ms. Reema Shah's PhD on "Machine Vision-Based Biomedical System" completed on 19th March 2025.

## **Prof. R.N. Desai & Prof. B.D. Patel**

Researched "Soil Fertilizers from Waste Surgical Gloves," published in Gujarat Samachar (Mar 2025).

## **Prof. Anal D. Bhatt**

Article on "Basics of Rubber Vulcanization" published in Rubber India Magazine, March 2025.

## **Prof. Gnanu G. Bhatt:**

Published research on "Manufacturing Rubber Tiles from Waste Tires" in Gujarat Samachar (Feb 2025).





# FACULTY ACHIEVEMENTS

## **Prof. Dr. Madhusmita Sahoo**

Awarded Ph.D. in "Dielectric Resonator Antennas for Satellite Communication and Web Applications" from Indus University.

## **Prof. Bina B. Patel**

Awarded 3rd rank and Rs. 3K prize for PhD research work at GCPC program, March 2025.

## **Prof. Sunil Padhiyar**

Filed provisional patent on "Sustainable Reinforcement of Rubber Compound" in January 2025 and secured Rs. 1 lakh grant for the project "ReViver" under SSIP 2.0 Phase 5.

## **Prof. Gnanu G. Bhatt & Daxit Soni**

Paper titled "Synergistic Flame-Retardant effect" recognized as Best Paper at SME 2025 conference.

## **Prof. R.N. Desai & Prof. Sunil Padhiyar**

Conducted research on "Reinforcing filler from wastewater bottles" and published in Bhasker Exclusive (Feb 2025).

## **Prof. M.I. Siddiqui**

Patent granted for "Remote Signal Based Operable Motorized Tripper Switching Mechanism" on 21st February 2025.

## **Prof. Dr. R. N. Shukla**

Delivered expert talk on "Mark Salamati Awareness" at S. & S. S. Gandhi Government Engineering College, Surat.

## **Prof. Dr. Major C.S. Sanghvi**

Member of the Special Technical Committee for Tall Structures under the Government of Gujarat, where he has approved over 33 tall structure projects, has been nominated to the Board of Studies at the National Forensic Science University, Gandhinagar, and appointed to the Managing Committee of the Ahmedabad Red Cross Society. He also serves as the Chairman of the Grievance Committee at GTU and has coordinated academic inspections at GTU institutes. In addition, Prof. Sanghvi has delivered multiple expert talks on earthquake-resistant buildings and voluntary blood donation at various national forums.

## **Prof. R.N. Desai & Prof. B.D. Patel**

Coordinated and renewed IEI student chapter for Rubber Technology Department (2027) and worked on research projects related to waste plastic reinforcement and soil fertilizers, published in major newspapers.



# STUDENT ACHIEVEMENTS



## Institute for Steel Development and Growth

A team of final-year Civil/Structural Engineering students from L. D. College of Engineering won the second runners-up position (3B) in the National-Level Civil Awards Competition 2024-25, organized by INSDAG. Guided by Prof. C. D. Patel, the team—Tejas Gajjar, Janvi Chotaliya, Harshvi, and Keval Prajapati—presented an innovative design for a Steel-Intensive Concourse over Railway Track and Platform. Competing against 16 top teams, including IITs and NITs, they impressed the judges and received a ₹20,000 cash prize, bringing pride to the college.

## Senior Under Officer (SUO) at the NCC

Patel Krishi Piyush, a 6th Semester EC student, achieved the prestigious rank of Senior Under Officer (SUO) at the NCC Army Attachment Camp held at the 11 Rapid Signals Regiment from 7th to 18th January 2025. Demonstrating exceptional leadership and performance, she served as the Camp Leader, won a Gold Medal in the Drill Competition, and secured the Runner-up position in the Volleyball event, marking a proud moment for her and institution.



## Garud Drone – Agricultural Crop Health Monitoring Drone

Paridhi Karmakar, Tanay Chaturvedi, and Shubham Dalwala, 6th-semester EC students, are working on the project "Garud Drone – Agricultural Crop Health Monitoring Drone" under the guidance of Prof. Madhusmita Sahoo and Prof. Kishor Bamniya. The project commenced in March 2025.





## Media Applauds Disha Solanki's Social Initiatives

Disha Solanki, 8th-semester EC student, actively contributed to numerous social initiatives under NSS and various student-run clubs at LDCE. Her dedicated service was acknowledged by media coverage, recognizing her efforts on behalf of society.

## Smart India Hackathon (SIH) 2024 Grand Finale.

Environmental Engineering students Nishit Modi (Enrollment No. 210280113003), Rishu Yadav (Enrollment No. 210280113035), Vatsal Patel, Rajeshwari, Ahaan Thakore, and Rudra Patel, along with faculty mentors Prof. Minarva Pandya and Prof. Vishwa Shah, were honored at the GTU Venture Sankul Annual Award Ceremony on 15th February 2025. They won the First Prize of ₹50,000 in the Hardware Edition of the Smart India Hackathon (SIH) 2024 Grand Finale.



## Cyber Rakshak Natak Utsav 2025

The skit "Money Murchhit", presented by L.D. College of Engineering at the Cyber Rakshak Natak Utsav – 2025, secured the Third Position at the state-level event. Written and directed by Shubhang Olwadkar, The powerful performance by Shubhang Olwadkar, Tapan Basar, Virendra Swamay, Nachiket Budheliya, Het Prajapati, and Aditya Pandya highlighted the consequences of unchecked greed for money.



# STUDENT ACHIEVEMENTS



Students of B.E and M.E. (Civil Engineering) were conferred with Gold medals on 8th February 2025 in the 30<sup>th</sup> GICEA Gold Medal Ceremony 2025, organized by The Gujarat Institute of Civil Engineers and Architects (GICEA). Students were awarded Gold medals for their excellent academic performance in different subjects pursued by them.

The Chemical Engineering Department conducted the BIS Quiz Contest on 11th February 2025 for 4th and 6th-semester students. Meetkumar Kaushikkumar Modi won 1st place, followed by Krish Harshadkumar Patel and Kartik Bakulbhai Rathod in 2nd place, and Yash Bharakhada in 3rd place. The event aimed to enhance students' awareness of standards and quality systems.

The following Sem 8 students of the Chemical Engineering Department have cleared GATE 2025: Nirmal Jadeja, Patel Riddhiben, Sabhya Prince, and Panchal Sumeet.

Former ME student Nirav Patel published his research paper based on his Master's project under Prof. Payal Prajapati in the 18th IEEE International Conference on Control, Automation, Robotics, and Vision (ICARCV), Dubai, and also served as a session chair at the conference

Shaishav Surati received the Best Student Startup Gold Medal at the 14th GTU Convocation for his innovation incubated at GTU Ventures.

Kayastha Yash Alope was awarded the Outstanding Alumni Award for Academic Excellence by Silver Oak University, Ahmedabad, during the Alumni Awards 2025 Ceremony. He graduated with a perfect 10 CGPA in the diploma program.

Parth Mahakal and Ronak Singh, 2nd-year AIML students, secured 3rd rank in the IoT Security category at the SAMPADA 2025 Hackathon organized by DRDO and Gujarat University and won ₹20,000.

Tapan Narendra Baser secured 2nd rank in the West Zone GTU Yoga Competition held from 24th to 28th December 2024, earning selection for the AIU National Yoga Championship. He also won 1st prize in Poetry at the national event Unkahi Bilithchron's organized by IIT Gandhinagar on 15th February 2025, receiving a cash award of ₹3,000. Continuing his streak of achievements, Tapan secured 2nd position in the West Zone Theatre Competition held at Ganpat University, Mehsana, from 4th to 8th January 2025. He will now represent GTU at the national-level theatre event in Delhi from 3rd to 7th March 2025.

Environmental Engineering students Zeel Shah (Enrollment No. 230280113059) and Shashwat Munda (Enrollment No. 230280113060) secured the runner-up position in the "Labmaster" event at Chemozale 2025, held at Nirma University in January 2025.

At the 38th AIU National Youth Festival held at Amity University, Noida, from 3rd to 7th March 2025, Tapan Baser won 1st prize in Skit, and Shubhankar Panditrao (Enrollment No. 210280113032) secured 2nd position in the Debate competition.

Kesarvani Kajalben Jivanbhai, a student of 2nd semester EC, participated in the Art Fusion Competition during "Sahitya Sarita 2025", conducted on 21st & 22nd February 2025.

From the Textile Department, final-year student Ms. Kevly Badjatiya and Mr. Dipak Chowdhury, an ME student from was awarded a Gold Medal during the GTU Convocation in January 2025.





# STUDENT ACHIEVEMENTS

Two SSIP projects from the Textile Department were sanctioned in March 2025, led by ME students Ms. Jalpa Mistry and Mr. Arup Satapathy, under the guidance of Dr. D. V. Bihola along with Prof. S. J. Parapuram and Dr. H. J. Jaiswal, respectively.

Priyal Jigneshbhai Jasmani, M.E. (Environmental Management), won the Gold Medal at the 14th GTU Convocation held on 28th January 2025 (Enrollment No. 220280718004). She also received a Gold Medal from the Gujarat Institute of Civil Engineers and Architects (GICEA) on 8th February 2025.

Nithyaashree Chettiar, B.E. (Environmental Engineering), was awarded the Gold Medal by GICEA on 8th February 2025 (Enrollment No. 200280113004).

Ten students from B.E. and M.E. Environmental Engineering participated in the Vejalpur Startup Festival 2.0 on 21st March 2025

Sitapara Brothers, alumni from PDDC 2022 Batch (Jatinbhai & Prashantbhai), have established their startup, Sahajanand Electricals, an Electrical Projects Contracting firm.

Harsh Pithwa (UG), Shryanshu Rajput (UG), and Gautam Varsani (PG) attended a one-day startup seminar titled "Seed to Succeed: Concept to Reality" at Ahmedabad Management Association on 5th January 2025.

A team comprising Krish Sadhu, Darshit Vaghani, Aman Galoliya, and Aryan Raiyani, guided by Dr. K.A. Bhatt and Prof. F.A. Macwan of Electrical Department, won the Runner-Up Prize (₹15,000) in the CVM Hackathon on 15th February 2025 for their project on a Real-Time Vehicle Tracking System

Team Power Guards from Electrical Department (Sushmita Mallik, Rudra Bhatt, Om Gayakwad, Dharsandiya Het), mentored by Dr. J.R. Iyer and Dr. K.A. Bhatt, secured the Runner-Up Prize at the GEC Gandhinagar Hackathon on 28th February 2025.

Students from the Environmental Engineering Department achieved the highest cumulative medal score of 48 at the interdepartmental sports and cultural fest "Impulse", winning the maximum number of medals in the institute.

The ElectraWave Catamaran team (Madhav Raval, Shubhangi Shukla, Aneri Sheth) was selected among the Top 30 Finalists out of 623 teams at the Code Unnati Innovation Marathon held at GTU on 28th March 2025

Nishant Shukla participated in the Youth Parliament (District Level) and was also selected as a finalist in the S.R. Bhandari AMA Best Speaker Award 2025.

Hrishikesh Singh, (Rubber Technology) B.E. (Sem VIII), represented GTU at the Nationals of Woodball held at Parul University, Vadodara (2nd to 11th March 2025) and contributed to the team's victory at the national level.

Devansh Raval, (Rubber Technology) B.E. (Sem VI), played as goalkeeper in the 4th Zonal Blind Football Tournament held in Ahmedabad, helping Gujarat win the final against Kerala (1-0).



# STUDENT ACHIEVEMENTS

Raj Vasani, Siddhant Patil, Pratik Bagul, and Ujjwal Vig(Rubber Technology) (B.E. Sem VIII), under Prof. Gnanu Bhatt, published a research paper titled:

“Synergistic Effect of Zinc Oxide and Magnesium Oxide Co-Cure Activators on Polybutadiene Rubber Vulcanization: Mechanical Properties and Thermal Characteristics.”

Maulik Chauhan, M.E. Semester IV (Rubber Technology), enhanced his academic exposure through industrial visits to prominent organizations including Badri Narain Rubbers Pvt. Ltd., Halol (8th March); Sanvi Rubber Products, POR GIDC (11th March); Vaibhav Enterprise, Vatva GIDC (12th March); MOVIL RUBTECH INDIA LLP, Vatva GIDC (13th March); and NIPER, Ahmedabad (24th March).

Dhruvkumar Patel, M.E. Semester IV (Rubber Technology), visited Universal Masterbatch LLP on 10th January and CIPET Ahmedabad on 7th March as part of his academic and industrial exposure

6th Semester students of Plastic Technology completed 15 days of training at CIPET (Vatva) under RUSA, titled “Mold Flow Analysis of Injection Molding Machine” from 27th January to 7th February 2025.

Prof. Bharati Basantani, along with 2023 pass-out students Jeet Lukhi, Rajan Pumbhadiya, Ashish Tiwari, and Dhvani Khatri, published a Design Patent titled “Sterilization Chamber” on 20th March 2025 (Design No. 350941-001).

Ananya Pandey, Plastic Tech 2nd Semester student, was awarded “Best Sanskrutik Speaker of LDCE 2025” during the Elocution Competition organized by NSS & Science and Humanities Dept. on 1st March 2025.

A team of 6th Semester IT students—Shubham Bera, Ronak Sharma, Dhaval Rathod, Divy Shah, and Ansh Shrivastav—achieved 3rd place in both Ingenious Hackathon 6.0 at Ahmedabad University for developing an AI-powered credit evaluation tool for farmers, and Hacknuthon 6.0 at Nirma University for their project on alternative credit evaluation using AI and APIs.

Another team of IT students—Bhavya Fattania (Leader), Prince Jakhariya, Meera Mistry, and Daksh Gorajiya (4th Semester)—won 3rd place (₹4000) in HacktheSpring'25 (GEC Gandhinagar) for their project on a Multimodal Mental Health AI Agent.

Dhruvi, M.E. (Information Technology), received the Gold Medal at the GTU Convocation held in January 2025.

Dutiya Riddhi Sameer, a student of 2nd semester EC, participated in the Mic Tales Competition and Poetry Writing Competition during "Sahitya Sarita 2025", held on 21st & 22nd February 2025.

Dhruvi Rakeshkumar Rana, a student of 2nd semester EC, took part in the Quiz Mahakumbh Competition as part of "Sahitya Sarita 2025", held on 21st & 22nd February 2025

Prashant Kushwaha and team(Rubber Technology) represented the college in Kabaddi at the National Level during the Indus University tournament (6th to 12th January 2025).





# PROFESSIONAL DEVELOPMENT



## Industrial Training in Various Sectors

- Prof. B.G. Chaudhari took part in a Short-Term Training Program on Intellectual Property Rights: Patent, Trademark, Copyrights, Design, GIs & Plant Varieties from 17th to 22nd March 2025 at GTU, Ahmedabad.
- Prof. Hetal Shah and Prof. Stuti Shah topped the MOOC course on "Processing of Polymers & Polymer Composites" on SWAYAM, scoring 96% each.
- Dr. D.V. Bihola, Dr. S.K. Parmar, Prof. S.J. Parapuram, and Prof. K.J. Ponda. They also participated in an Executive Development Program—Train the Trainers program on "Protective Textiles" organized by the Indian Technical Textile Association from 24th to 28th February 2025 (online).

## Expert Sessions

- Prof. A.D. Bhatt and Prof. B.D. Patel attended an expert session on "Ayurveda" held on 6th March 2025 at Aryabhatt Hall, LDCE.
- Dr. D.V. Bihola, Dr. H. J. Jaiswal, Dr. S.K. Parmar, Prof. S.J. Parapuram, and Prof. K.J. Ponda attended a technical session on Indian Standards on Medical Devices on 21st January 2025 at LDCE, Ahmedabad.
- Prof. Stuti Shah, Prof. Hetal Shah, and Prof. B.G. Basantani attended a session arranged by WDC-LDCE on "Unlocking the Secrets of Ayurveda" by Dr. Shital Belani on 6th March 2025. On the same day, Prof. Stuti Shah also served as the anchor for the Women's Day celebration event.

## Seminar

- Dr. V.R. Patel and Dr. B.J. Shah participated in an FDP titled "Nurturing Future Leadership Programme" at IIM Vishakhapatnam from 10th to 14th March 2025.

## Workshop

- Prof. H.N. Raval, along with Ridhdi Barad and Hetvi Chaudhari, attended a workshop on My Bharat Portal Outreach at Gujarat University on 18th February 2025.



# PROFESSIONAL DEVELOPMENT

## Industrial Training in Various Sectors

- Prof. B.D. Patel and Prof. Sunil Padhiyar successfully completed the 12-week NPTEL MOOC course on Characterization of Polymers, Elastomers, and Composites from January to April 2025.
- Prof. Piyush S. Patel and Dr. Rajul P. Bhatt attended a GeM Training program held at LDCE, Ahmedabad for one day.
- Prof. Sunil Padhiyar, Prof. Gnanu G. Bhatt, and Prof. Riyaz Y. Modan attended the 8-week NPTEL MOOC course on Processing of Polymers and Polymer Composites from January to March 2025, with Prof. Modan clearing the exam with 75%.
- Prof. M. R. Vasavda has successfully completed his Ph.D. under the esteemed guidance of Dr. Chirag Vibhakar at Gujarat Technological University. His doctoral research was titled "Characterization of Industrial Grade HTV Silicon Rubber Insulator for Application in Electrical Insulators" and was completed on 1st April 2025.
- Prof. V. M. Dholakiya has successfully completed his Ph.D. under the supervision of Dr. B. N. Suthar at Gujarat Technological University. His research work, titled "Investigation on Frequency Regulation in Modern Power Grid", was completed on 19th March 2025.

## Conference

- Prof. B.D. Patel attended a special talk on "Good Practices at Auroville" on 3rd January 2025 at AMA Center for Tourism and Hospitality Management.

## Webinars

- Prof. Sunil Padhiyar attended a webinar on "Application of Emerging Technology in the Rubber Industry" on 8th February 2025 organized by IRI, Udaipur.
- Prof. Sunil Padhiyar and Prof. Riyaz Modan attended the Vejalpur Startup Festival 2025 as mentors on 22nd March 2025 at JADE Banquet, Ahmedabad.





# PAPER PUBLICATIONS

## Publications

### Hybrid Treatment for Dye-laden Wastewater

Prof. N. J. Ambegaonkar, Prof. P. S. Patel, and Prof. P. B. Patel have successfully published their research paper titled "Hybrid Treatment for Dye-laden Wastewater" in the January 2025 edition of Indian Chemical Engineer (ICE).

### Sorbitol to Isosorbide Dehydration Using $\text{SnO}_2$ Catalysts

Dr. P. H. Rana authored a research article titled "Sorbitol to Isosorbide Dehydration Using  $\text{SnO}_2$  Catalysts", which was featured in Research on Chemical Intermediates, February 2025.

### Techno-economic Analysis of Lignocellulosic Biorefinery

In a collaborative effort, Dr. R. R. Patel, Dr. T. S. Rajaraman, Dr. P. H. Rana, and Prof. N. J. Ambegaonkar co-authored the paper "Techno-economic Analysis of Lignocellulosic Biorefinery," published in Results in Chemistry, January 2025.

### Ag- $\text{TiO}_2$ Heterojunction for Rhodamine B Degradation

Dr. D. D. Mandaliya published a significant study titled "Ag- $\text{TiO}_2$  Heterojunction for Rhodamine B Degradation" in ACS Omega, March 2025.

### Osmotic Dilution for Wastewater Dewatering

Dr. S. M. Dutta contributed to the field of wastewater treatment with his research titled "Osmotic Dilution for Wastewater Dewatering," published in the February 2025 issue of Indian Chemical Engineer (ICE).

### AI-based Medical Emergency Scheduling

Prof. Parth Dave presented his research on "AI-based Medical Emergency Scheduling" at the International Conference on Intelligent Systems and Information Management (ICISIM), February 2025.

### Plasma Technology in Agriculture

Harsh Shastri, Vandana Trivedi, and Manish Thakker published a paper titled "Plasma Technology in Agriculture" in the January 2025 edition of the SAARC Journal of Agriculture.

### Air Quality Assessment Using AERMOD

Bina B. Patel published her paper "Air Quality Assessment Using AERMOD" in the Journal of Environmental Informatics Letters, March 2025.

### Challenges in Translation Studies

Dr. Apexa Dharankar explored the intricacies of language translation in her article "Challenges in Translation Studies", published in the Annals of Bhandarkar Oriental Research Institute, January 2025.

### PET Waste for Rubber Reinforcement

Prof. Sunil Padhiyar presented his innovative work "PET Waste for Rubber Reinforcement" at the National Conference on Polymer Sciences, January 2025.

## Presentations

### Flame-Retardant Effect of BEG & APP in RPUF

Prof. Gnanu G. Bhatt and Daxit Soni presented their research titled "Flame-Retardant Effect of BEG & APP in Rigid Polyurethane Foam (RPUF)" at the SME 2025 Conference, held in February 2025.

### Charging Shunt Reactor with Point on Wave Technique

Prof. S. N. Shivani published a research paper titled "Charging Shunt Reactor with Point on Wave Technique" in the Journal of the Institution of Engineers (India): Series B.

### Energy Storage Impact on Frequency Regulation

Prof. V. M. Dholakiya presented his work "Energy Storage Impact on Frequency Regulation" at the Smart Systems for Digital Energy and Environment (SSDEE) Conference, hosted by IIT Dhanbad during February-March 2025.

### SRM Speed Control for Vehicles

Prof. S. M. Patel delivered a presentation titled "SRM Speed Control for Vehicles" at the MoSICom Conference in Dubai, held in February 2025.

# SPORTS ACHIEVEMENTS



- Prof.Stuti Shah and Prof.Hetal Shah participated in the Badminton Tournament organized by the Women Development Cell (WDC), LDCE, on 1st March 2025
- Impulse Girls Cricket 2025 - Champions! The Computer Department girls' team clinched the championship title in Impulse Girls Cricket 2025 on March 12, 2025, defeating the Environment team by 7 wickets. Led by Aanal Patel, the team chased a target of 44 runs in just 6.4 overs, with remarkable contributions from all players, showcasing excellent teamwork and skill.



- Prashant Kushwaha was a part of the Kabaddi team that reached the grand finale and represented the college at the national level. The event was hosted by Indus University from 6th to 12th January 2025.
- Vihaan Joshi, a student of 4th semester EC, represented GTU in Karate at the All India University Games held in January 2025 at Rohtak, Haryana.

Devansh Raval participated in the 4th Zonal Blind Football Tournament held in Ahmedabad, Gujarat. Playing as a goalkeeper, he led his team to victory in the final match against Kerala. The match was decided through a penalty shootout, where Devansh made a crucial save, securing a 1-0 win for his team and earning the championship title.

Hrshikesh Singh's team represented Gujarat Technological University (GTU) at the Nationals of Woodball held at Parul University, Vadodra, Gujarat, from 2nd to 11th March 2025. The event was organized by the Woodball Association of Nagpur. His team emerged as the winner of this prestigious national-level tournament.







# NCC & NSS



The NSS Unit of L. D. College of Engineering organized a Special Camp at Lapkaman Village, Ahmedabad, during 29 March to 04 April, 2025. NSS volunteers from the Computer Department semester 4<sup>th</sup> and 6<sup>th</sup> – Gargi Patel, Pal Vala, Poonam Patel, Visheersha Paramar, and Neel Patel, participated in the camp along with Prof. Prachi Pancholi. Activities conducted included SCIT, reading sessions, teaching, and awareness programs.

4 January 2025: 4 cadets performed piloting duties for the GAC 2025 event at LDCE.

26 January 2025: 30 cadets proudly participated in the Republic Day parade at LDCE.

28 January 2025: 11 cadets offered a Guard of Honour to Governor Shri Acharya Devvrat at Science City during the GTU Convocation.

19 February 2025: 10 cadets volunteered during a Thalassemia Checkup at 1 GUJ CTC, LDCE, assisting medical staff.

20 February 2025: 24 cadets actively donated blood and volunteered in the blood donation camp at LDCE, in collaboration with NSS volunteers.

21 February 2025: 15 cadets appeared for the B Certificate Practical Examination at NCC Group Headquarters, Law Garden.

23 February 2025: 15 cadets appeared for the B Certificate Theory Examination held at LDCE.

09 March 2025: 30 cadets participated in a rally organized by T-Tech NGO, raising awareness on social issues starting from LDCE.

24 March 25: 15 cadets took part in a Public Speaking Contest held at Ahmedabad Management Association, IIM Road, Vastrapur.

27 March 2025: 20 cadets underwent rifle firing training at Hanuman Camp Firing Range.

09 April 2025: 17 cadets welcomed Brigadier N. V. Nath at 1 GUJ CTC Unit, LDCE with piloting and a Guard of Honour, earning praise for their enthusiasm and discipline.

Prajapati Mahi Hasmukhbhai, a student of 2nd semester EC and NCC cadet, actively participated in multiple national-level events including:

- 1) Republic Day Parade
- 2) National Blood Donation Camp at Raj Bhavan
- 3) Piloting the Governor of Gujarat during GTU Convocation 2025
- 4) CATC Camp, where she secured a Gold Medal in the Drill Competition

Prajapati Vishwa, a student of 2nd semester EC and NSS volunteer, actively participated in the Republic Day Parade and the Rang Amazi cultural celebration.



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