

GOVERNMENT ENGINEERING COLLEGE, MODASA

Newsletter

January – June 2026

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GECM E-NEWS

FROM THE PRINCIPAL'S DESK



Dear Students, Faculty Members, Alumni, Industry Partners, and Well-Wishers,

It gives me immense pleasure to present GECM E-News – Volume 6, Issue 1 (January–June 2026), highlighting the significant academic, research, innovation, and student achievements of Government Engineering College, Modasa during the first half of 2026.

Our institute continues its journey of excellence with a strong commitment to quality education, innovation, and holistic student development. I am delighted to share that the Mechanical Engineering Department has been accredited by the National Board of Accreditation (NBA), reaffirming our

dedication to maintaining the highest academic standards. During this period, the institute has also earned recognition among one of India's Best Engineering Institutes and received the prestigious Best New Local Chapter Award by NPTEL, reflecting the sincere efforts of our faculty, staff, and students.

During the first half of 2026, the institute witnessed remarkable progress across various domains. Our students have actively participated in technical competitions, innovation and entrepreneurship activities under SSIP, expert lectures, industrial interactions, sports, cultural events, NSS initiatives, and community outreach programmes. These accomplishments reflect the institute's commitment to nurturing technically competent, socially responsible, and future-ready engineers.

Aligned with the vision of the National Education Policy (NEP 2020) and our Institutional Development Plan (2025–2030), we continue to strengthen multidisciplinary learning, research, innovation, digital transformation, sustainability, and industry collaboration. Our green campus, modern infrastructure, and student-centric initiatives remain focused on creating an environment that nurtures academic excellence and responsible citizenship.

This newsletter is a reflection of the collective dedication, creativity, and achievements of our students, faculty members, staff, alumni, and stakeholders. I sincerely appreciate everyone whose commitment has contributed to the continued growth and success of our institute.

I invite you to explore this edition and celebrate the accomplishments of the GECM family. Together, let us continue striving for excellence and contributing meaningfully to society through quality technical education.

Best Wishes,

Prof. (Dr.) Jeetendra A. Vadher
Principal (I/C)
Government Engineering College, Modasa

COLLEGE SAGA

PRAGATI-2K26

PRAGATI-2K26 was successfully organized by the Technopreneur Club of Government Engineering College, Modasa on 23 January 2026 at the Learning Resource Centre (LRC) Building. The event celebrated the spirit and values of the Indian Constitution through a variety of creative, cultural, and literary activities. The program featured competitions in singing, dancing, poetry recitation, speech, and short film presentations, providing students with an opportunity to showcase their creativity and confidence. Around 15 enthusiastic participants actively took part in the event. A special expert talk by Dr. Usha Rathod, Principal of Tatva Gyanshakti School, Modasa, inspired students with valuable insights into constitutional values, civic responsibility, and national integrity. The event concluded on a positive note, promoting unity, creativity, and patriotism among students and faculty members.



Nourish and Flourish

The NTF – Student Mental Health Support Cell organized the "Nourish and Flourish" on 31 January 2026. The event was designed to promote awareness of mental health, balanced nutrition, and healthy lifestyle practices among students, encouraging them to prioritize both their physical and emotional well-being. The program featured expert sessions on stress management, emotional

resilience, and the importance of maintaining a positive mindset. A dedicated nutrition session emphasized the role of a balanced diet in supporting overall health, while the mental wellness session provided practical strategies for coping with stress, anxiety, and academic pressure. Students were encouraged to openly express their emotions, seek support when needed, and adopt healthier daily habits. The program successfully inspired participants to focus on holistic well-being and develop a balanced approach to personal and academic life.



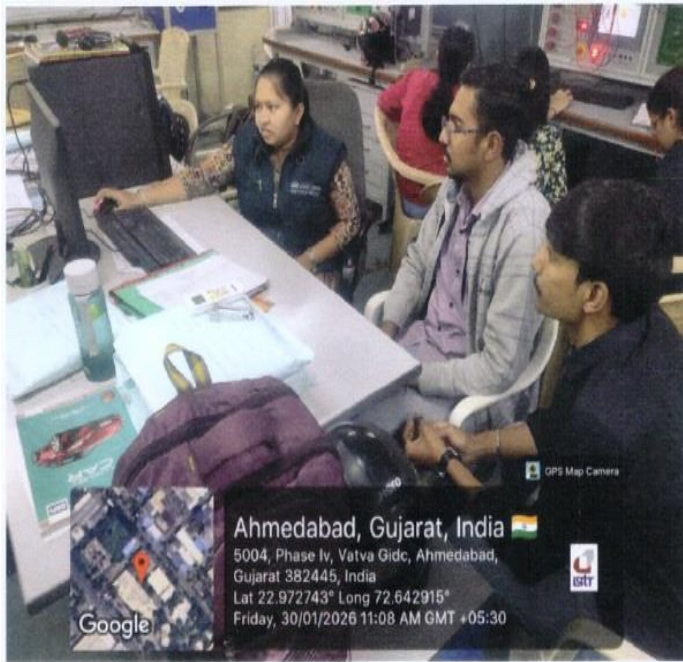
RUSA

Training on Electrical CAD (Indo-German Tool Room, Ahmedabad)

A 12-day training program on Electrical CAD was attended by students of B.E. Semester 7 (Electrical Engineering) at Indo-German Tool Room, Ahmedabad from 19/01/2026 to 02/02/2026. The training provided practical exposure to concepts of engineering design in the field of electrical engineering, helping students enhance their technical knowledge and familiarize themselves with real industrial working environments. The program focused on understanding the practical applications of electrical engineering, industrial machines and electrical systems, and relevant

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safety standards and procedures, with the objective of bridging the gap between theoretical knowledge and practical implementation. Prof. M. M. Makwana and Prof. R. B. Shah coordinated the training, guiding students throughout the program.



Gymkhana

Republic Day Celebration

The institute celebrated the 77th Republic Day on 26 January 2026 with great enthusiasm and patriotic fervor. The celebration began with the flag hoisting ceremony by the Principal, followed by the national anthem, a march past, and cultural performances by students. Speeches were delivered highlighting the significance of the Indian Constitution, the values of democracy, and the spirit of unity in diversity. Students, faculty, and staff participated wholeheartedly, honoring the historic occasion with pride and national spirit. The event successfully reinforced a sense of patriotism, civic responsibility, and unity among

the college community, coordinated by the Gymkhana Team.



Redcross Membership Certificate Distribution

On January 27, 2026, institute, organized a certificate distribution ceremony to honor the dedicated student volunteers of its Youth Red Cross (YRC) unit. The event celebrated the students' outstanding commitment to humanitarian services, community outreach, and health awareness initiatives carried out across the campus and local communities.



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HIV/TB Awareness

On February 3, 2026, the National Service Scheme (NSS) team, organized an impactful HIV/TB Awareness Programme to educate students on crucial public health challenges. Coordinated by the Gymkhana Team, the initiative focused on raising awareness about the prevention, transmission, and social stigma surrounding HIV and Tuberculosis. Through interactive discussions and expert guidance, student volunteers and attendees gained valuable insights into early detection, healthy lifestyle choices, and community support, reinforcing the institution's commitment to building a well-informed and health-conscious youth.



NSS Camp

The NSS unit successfully organized its annual Special Rural Camp at Palanpur village from February 16 to February 23, 2026, under the guidance of the Gymkhana Team. Over seven days of immersive community service, student volunteers conducted a wide range of impactful activities, including health check-up camps, cleanliness drives under Swachh Bharat Abhiyan, educational sessions, and social awareness rallies for local residents. The initiative offered students a meaningful opportunity to develop leadership skills and civic responsibility while making a positive, lasting contribution to rural community development.



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Cleanliness Drive

On February 26, 2026, the NSS unit organized a campus-wide Cleanliness Drive under the leadership of the Gymkhana Team. Demonstrating a strong commitment to environmental hygiene and the Swachh Bharat mission, student volunteers actively participated in cleaning key areas across the institute grounds, departments, and public spaces. The initiative not only fostered a cleaner and healthier educational environment but also reinforced civic responsibility and community hygiene values among the students.



AARAMBH 2K26

AARAMBH 2K26, the annual Sports fest of college, was organized from 21 February to 1 March 2026 to promote physical fitness, teamwork, leadership, and overall student well-being. The event featured a variety of outdoor and indoor sports, including cricket, volleyball, kabaddi, kho kho, athletics, badminton, table tennis, and chess, with enthusiastic participation from students across all semesters. The competitions were conducted smoothly under the guidance of the Gymkhana Team and student volunteers, with proper safety

measures and sportsmanship maintained throughout. AARAMBH 2K26 provided an excellent platform for students to showcase their athletic abilities while fostering unity, discipline, and a healthy competitive spirit.



The Officers Cricket Tournament

The Officers Cricket Tournament was organized at Government Engineering College, Modasa, in March 2026, bringing together officers from the Treasury Department, Police Department, Income Tax Office (Modasa), and the institute. The tournament, coordinated by the Gymkhana Team, served as a platform to strengthen interdepartmental coordination, camaraderie, and mutual respect through sports. The event fostered a spirit of unity, brotherhood, and healthy competition among government officers while

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promoting teamwork beyond their professional roles. The institute's team emerged as the tournament champions.



GMPL Season 1

GMPL Season 1, an IPL-style auction-based cricket tournament, was organized at Government Engineering College, Modasa from 16 March 2026 to 19 March 2026 at the GECM College Ground. The event was coordinated by the Gymkhana Team, and witnessed enthusiastic participation from 120 students divided into 8 teams. Faculty members served as team owners and selected players through a live auction, creating a unique platform for faculty-student interaction while promoting teamwork, leadership, sportsmanship, and healthy competition. The Dominator emerged as the tournament champion, while Simran XI finished as the runner-up. Tournament Scoreboard (Cricheroes):

<https://cricheroes.com/tournament/1919916/gmpl-season-1/matches/live-matches>



Strength Within: Women Safety and Self Awareness Drive

The Women Development Cell (WDC), organized "Strength Within: Women Safety and Self Awareness Drive" to promote awareness about women's safety and self-protection. The session, conducted by Inspector D. J. Prajapati and Team, covered safety measures, cyber awareness, helpline services, and preventive strategies.

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Students also participated in a practical self-defence demonstration, gaining confidence and essential skills to respond effectively in challenging situations.

Yoga Day Celebration

On June 21, 2026, institute celebrated International Yoga Day at the campus with great enthusiasm and active participation from students, faculty, and staff. Coordinated by the Gymkhana Team, the event featured guided yoga sessions, pranayama, and mindfulness exercises promoting physical health and mental well-being. The celebration successfully highlighted the importance of integrating yoga into daily routines for stress management and a balanced, healthy lifestyle within the academic community.



competition. Students displayed excellent cricketing skills and enthusiasm, creating a vibrant and energetic atmosphere throughout the event. All the students who wished to participate in the tournaments were allowed to play and enjoy the tournament. It was held in a lighter mood to ease the pressure.



Hostel

The SG Cup Season 1 was organized by the E-Block Hostel

The SG Cup Season 1 was organized by the E-Block Hostel to celebrate the spirit and unity of South Gujarat students at college. The tournament featured 4 teams representing South Gujarat, competing in 9 exciting 8-over matches that promoted teamwork, sportsmanship, and healthy

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Applied Mechanics & Civil Engineering Department

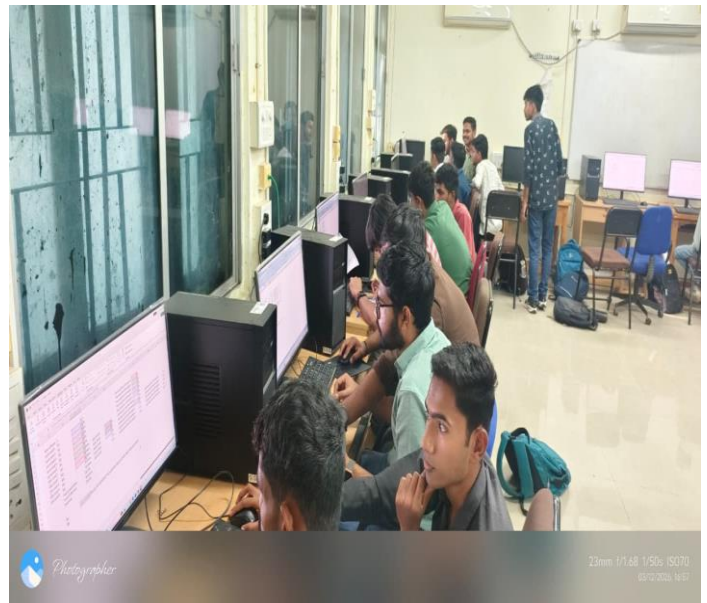
MOU with Adani

The Institute achieved a major milestone in industry-academia collaboration by signing a Memorandum of Understanding (MoU) with Adani Cement Futurex on January 29, 2026. Coordinated by faculty lead Dr. A.J. Patel, this strategic partnership aims to bridge the gap between academic learning and technical industry demands by offering students structured skill development, outcome-based training, and hands-on exposure to modern engineering tools. The initiative paves the way for direct industry interaction, enhanced internship and placement opportunities, and joint research and development projects, empowering students with practical expertise and career readiness.



Excel Applications for Civil Engineering

A hands-on workshop on “Excel Applications for Civil Engineering” was successfully organized by Dr. A.J. Patel for 6th-semester civil engineering students to bridge the gap between classroom theory and real-world project calculations. The interactive session focused on practical engineering workflows, empowering students to build automated design spreadsheets for structural analysis, concrete mix design, and quantity estimation.



Faculty Briefing Session on Pedagogy and Curriculum Enhancement

On 30/03/2026, following their participation in an intensive training program at CEPT University, Ahmedabad, Dr. A.J. Patel and Dr. V.R. Gor conducted a dedicated pedagogy briefing session for the faculty members. The session served as a knowledge-sharing platform to cascade key insights, modern teaching practices, and syllabus restructuring techniques learned during their time at CEPT.

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among students and participants. The event was coordinated by Prof. D. U. Thakar, Dr. H. S. Pandya, and Dr. N. V. Upadhyay.



Student Clears GPSC (R&B) and GPSSB for the Post of Work Assistant

Civil Engineering Department congratulates Dhara Prajapati, a passout student (Enrollment No. 220163106053), for successfully clearing the competitive examinations for both the Roads & Buildings (R&B) Department (GPSC) and the GPSSB for the post of Work Assistant. This outstanding dual achievement reflects her dedication, hard work, and technical expertise cultivated during her academic journey. Her remarkable success brings great pride to the institution and serves as an inspiring motivation for future batches of civil engineering students.

Electrical Engineering Department Energy Conservation Awareness Workshop

The Electrical Engineering Department hosted an “Energy Conservation Awareness Workshop” conducted by IIT Gandhinagar on February 10, 2026. The primary objective of this workshop was to promote responsible and efficient energy usage

Industrial Visit to Power Lite Transformer Manufacturing Unit

The Department organized an industrial visit to Power Lite Transformer on February 12, 2026. The primary objective of this visit was to bridge the gap between theoretical academic learning and practical industry practices. By observing the real-time manufacturing and testing of electrical transformers, students gained a comprehensive, hands-on understanding of electrical machine design, core assembly, and high-voltage testing protocols. The visit was coordinated by Dr. V. J. Upadhyay and Dr. N. V. Upadhyay.

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Industrial Visit to Microteck Pvt Ltd.

The Department organized an industrial visit to Microteck Pvt Ltd., located in Chandkheda, on February 20, 2026. A total of 32 students across semesters 2, 4, and 6 participated under the guidance of faculty coordinators Prof. S. V. Banker, Prof. H. S. Pandya, and Prof. C. K. Bariya. The objective of this visit was to provide practical industrial exposure to power equipment and observing real-world manufacturing processes.



Industrial Visit to ProteckG Private Ltd.

The Department organized an industrial visit to ProteckG Private Ltd., located on the Nana Chiloda - Dahod Highway, on February 20, 2026. A total of 32 students across semesters 2, 4, and 6 participated under the guidance of faculty coordinators Prof. K. K. Bhatt, Prof. J. B. Pujara, and Prof. T. A. Chaudhari. The objective of this visit was to provide practical industrial exposure to power equipment and to officially formalize an industry-academia partnership.



Industrial Visit to 132kV Substation, Institute for Plasma Research (IPR)

The Department organized a focused industrial visit to the 132kV High-Voltage Substation at the Institute for Plasma Research (IPR), Gandhinagar, on February 24, 2026. The IPR facility houses massive, pulsating power loads necessary for advanced research. The primary objective of this visit was to provide electrical engineering students with an in-depth, practical understanding of switchyard design, high-voltage power

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distribution, and the specialized protective equipment required to handle sudden, heavy industrial loads.



Educational Visit to Institute for Plasma Research (IPR)

The Department organized a one-day educational and industrial visit to the Institute for Plasma Research (IPR), located at Bhat, Gandhinagar, on February 24, 2026. IPR is an autonomous R&D organization under the Department of Atomic Energy (DAE), Government of India, primarily engaged in research in plasma physics and nuclear fusion. The main objective of this visit was to provide students with exposure to advanced scientific research, high-voltage engineering, and the electrical systems utilized in large-scale plasma containment and fusion technologies. The visit was coordinated by Prof. J. B. Pujara and Dr. N. V. Upadhyay.



Strategic Industry MoUs Signed

The Institute has strengthened its industry-academia collaboration by signing multiple Memorandums of Understanding (MoUs) with leading companies. These partnerships aim to enhance students' practical learning, research opportunities, and industrial exposure. The MoUs were facilitated by Dr. V. J. Upadhyay, Prof. D. Thakar, and Dr. H. S. Pandya, establishing strategic alliances with the following industries: (1) Powerlite Electricals Pvt. Ltd., represented by Shri Milind Patel, on 12-02-2026; and (2) Protekg Power Electronics Pvt. Ltd., represented by Shri Pratik Chaudhary, on 20-02-2026.

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Electronics & Communication Department

Industrial Visit

On 13 February 2026, 20 students from the 6th and 8th Semesters of the Department of Electronics and Communication Engineering visited Azista BST Aerospace, Sanand, Ahmedabad, under the guidance of faculty members. The visit provided valuable exposure to satellite assembly, integration, environmental testing, cleanroom operations, and advanced space technologies. Students observed satellite subsystems, thermal vacuum, vibration, and EMI/EMC testing facilities, gaining practical insights into aerospace engineering and satellite communication beyond classroom learning. The visit was coordinated by Prof. P. V. Patel.



Industrial Visit to Dhyan Automation Machinery Pvt. Ltd.

On 13 March 2026, students of the 5th and 7th Semester visited Dhyan Automation Machinery Pvt. Ltd., a leading manufacturer of industrial automation and special-purpose machinery,

under the guidance of Prof. Alpesh Dafada and Prof. Ketu Patel. The visit provided firsthand exposure to modern automation technologies, CNC machines, PLC-based control systems, and industrial manufacturing processes. Students also learned about quality assurance, safety practices, and the role of automation in improving industrial productivity and efficiency. The visit was also coordinated by Prof. K. R. Patel.

Industrial Visit to SP Automation Private Limited

On 13 March 2026, students of the 5th and 7th Semester visited SP Automation Private Limited, Ahmedabad, under the guidance of Prof. Alpesh Dafada and Prof. Ketu Patel. The company specializes in the manufacturing of AC drives, electrical panels, control panels, and industrial automation solutions. During the visit, students gained practical exposure to automation system design, PLC-based control panels, quality testing, and industrial safety practices, enhancing their understanding of modern manufacturing and automation technologies.



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Expert Lecture on Environmental Science, Sustainability and Renewable Energy

On 10 April 2026, the Department organized an Expert Lecture on Environmental Science, Sustainability, and Renewable Energy by Prof. Alpesh Dafda, HOD EC, to enhance students' awareness of sustainable development and environmental conservation. The lecture highlighted the importance of renewable energy technologies, resource conservation, and eco-friendly practices in addressing global environmental challenges. Students actively participated in the interactive session and gained valuable insights into building a sustainable future through responsible engineering and innovation.



Poster Presentation

The Department organized a Final Year Internship Poster Presentation to evaluate students' internship work and prepare them for professional technical presentations. The event was coordinated by Prof. P. V. Patel. Final-year students presented posters showcasing their internship projects, methodologies, and key outcomes. Faculty members evaluated the presentations based on technical knowledge, innovation, communication skills, and overall presentation quality. The activity enhanced

students' confidence, technical understanding, and readiness for industry and academic presentations.



Computer Engineering & Information Technology Department

Two-Day Workshop on “Full Stack Web Development: Tools, Practices, and Trends”

The Department of Computer Engineering & Information Technology successfully organized a GUJCOST-sponsored State Level Two-Day Workshop on “Full Stack Web Development: Tools, Practices & Trends” on 16–17 April 2026. Supported by GUJCOST, Department of Science & Technology, Government of Gujarat, the workshop aimed to provide practical, industry-oriented knowledge of modern web development. A total of 67 participants registered, with 54 actively attending. Day 1 featured Prof. Jashvant R. Dave, who introduced full stack concepts and conducted hands-on sessions on React, Next.js, and MongoDB. On Day 2, Mr. Sumit Khamar covered

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RESTful API development, database design, application integration, deployment, version control, and practical API implementation. The workshop addressed front-end and back-end architecture, database integration, deployment workflows, and end-to-end application development through expert lectures and coding activities. It enhanced participants' technical skills, problem-solving abilities, and understanding of current industry practices, successfully preparing them for real-world software development challenges. The workshop was coordinated by Prof. N. V. Nagekar, Prof. U. R. Bhoi, Prof. N. D. Goriya, and Prof. A. B. Parmar.



Industrial Visit at Kalpataru Projects International Ltd. and Gujarat Vidhan Sabha

The Industrial Visit was organized for 44 students of Semester IV and VI of the Computer Engineering and Information Technology departments, accompanied by two faculty coordinators, to Kalpataru Projects International Ltd., Gandhinagar on 17 March 2026. The visit was conducted after receiving official approval from the college and confirmation from the company. Its primary objective was to provide students with practical exposure to industrial technologies and professional work culture. During the session, company experts explained the implementation of SAP (Enterprise Resource Planning) software for managing finance, human resources, inventory, procurement, and business operations. Students gained valuable knowledge about centralized databases, real-time data processing, and integrated enterprise systems used in large organizations. The visit also enhanced students' understanding of current industry practices, teamwork, and project management. The visit also included an educational tour of the Gujarat Vidhan Sabha, where students observed live legislative proceedings and understood the importance of transparency, governance, and accountability in public administration. Overall, the industrial visit successfully bridged the gap between theoretical concepts and practical applications, enhancing students' technical knowledge, professional awareness, and understanding of real-world industrial practices. The visit was coordinated by Prof. Pinal J. Patel and Prof. Nilesh D. Goriya.



હિંમતનગર મોડાસા ભાસ્કર 03-05-2026

માનવબળ વિકાસ, યુવાન સેવા, શિક્ષણ, આરોગ્ય, કૃષિ, પર્યાવરણ, સ્ત્રી સશક્તિકરણ, જીવનશૈલી, આદ્ય

મોડાસા સરકારી ઈજનેરી કોલેજમાં રાજ્યકક્ષાનો બે દિવસીય વર્કશોપ

છાત્રોને આધુનિક વેબ ડેવલોપમેન્ટના વિવિધ પાસાઓ અંગે જાણકારી અપાઈ

ભાસ્કરન્યૂઝ | મોડાસા

મોડાસાની સરકારી ઈજનેરી કોલેજના કમ્પ્યુટર એન્જિનિયરિંગ અને ઈન્ફોર્મેશન ટેકનોલોજી વિભાગ દ્વારા GUJCOSTની સ્પોન્સરશીપ હેઠળ Fullstack Web Development: Tools, Practice and Trends વિષય ઉપર ૨ બે દિવસીય રાજ્ય લેવેલના વર્કશોપનું આયોજન કરાયું હતું. જેમાં આધુનિક વેબ ડેવલોપમેન્ટના વિવિધ પાસાઓ અંગે જાણકારી



અપાઈ હતી. વર્કશોપનો મુખ્ય હિતેશ વિદ્યાર્થીઓ અને ટેકનિકલ ક્ષેત્રના રસિકોને આધુનિક વેબ ડેવલોપમેન્ટના વિવિધ પાસાઓ વિશે વ્યાપક માહિતી પ્રદાન કરવાનો હતો. વર્કશોપ દરમિયાન ભાગ લેનારોએ FrontEnd અને

BackEnd ટેકનોલોજી, આધુનિક ડેવલોપમેન્ટ ટૂલ્સ, IT ક્ષેત્રમાં પ્રચલિત શ્રેષ્ઠ પદ્ધતિઓ (Best Practices) અને નવીનતમ ટ્રેન્ડ્સ અંગે પ્રાયોગિક અનુભવ કર્યો હતો. નિષ્ણાત વક્તાઓ દ્વારા વિવિધ સમય લેવાયા હતા. ત્રીજા વર્ણના વિદ્યાર્થીઓએ આ વર્કશોપમાં ભાગ લીધો હતો. કાર્યક્રમનું આયોજન કોલેજના પ્રિન્સિપાલના માર્ગદર્શન હેઠળ અને વિભાગના વડા તેમજ ફેકલ્ટી સભ્યોના સંયુક્ત પ્રયાસોથી સફળતાપૂર્વક પૂર્ણ થયું હતું.

DEPARTMENT SPOTLIGHT



Industrial Visit: Kaynes Semicon Inauguration & i-Hub Ahmedabad

On the historic occasion of March 31, 2026, 50 selected students from the CE and IT branches participated in a high-profile industrial visit. The primary objective was to witness the inauguration of the Kaynes Semicon OSAT facility by the Honorable Prime Minister Shri Narendra Modi and to engage in an entrepreneurial workshop at i-Hub Ahmedabad. The visit was coordinated by Dr. Prashant Modi.



SUDO-2026: A Grand Celebration of Innovation, Creativity and Technical Excellence

The Department successfully organized its flagship two-day technical fest SUDO-2026 on 19–20 February 2026. The event featured a wide range of technical, creative, and fun-filled competitions, including Hello World, Quiz Quest, TechTalk, Speech Craft, Shark Tank (GECM/The Engineers), LOGONINJA, Poster Making, Crypt the Treasure, Min Master, Fly High, Level Up Gaming, Charcha – The Debate, Lights-Camera-Action (Reel Making), CubiX, Take a Snap (Photography), AI Prompting, Eat Repeat, and various cultural activities. The detailed schedule included multiple rounds, finals, and a prize distribution ceremony spread across the two days. The fest witnessed an overwhelming response, with more than 600 students participating enthusiastically from various engineering colleges. The competitions provided an excellent platform for students to showcase their technical knowledge, problem-solving abilities, communication skills, creativity, and teamwork. The event also encouraged innovation and healthy competition while promoting collaboration and interaction among participants. The valedictory ceremony concluded with the felicitation of winners and runners-up of all competitions, recognizing their outstanding performances with trophies and certificates. To acknowledge the enthusiastic participation of every student, digital certificates were issued to all participants. SUDO-2026 proved to be a resounding success, fostering technical excellence, innovation, and professional development while strengthening the spirit of learning and collaboration among budding engineers. The event was coordinated by Prof. Anil Prajapati, Prof. Viral Patel, and Dr. Rahul Vaza.

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Industrial Visit to Space Applications Centre (SAC-ISRO), Ahmedabad

On 10 March 2026, the Department organized an industrial visit to the Space Applications Centre (SAC), ISRO, Ahmedabad. Students were introduced to India's satellite communication, remote sensing, and space technology programs, and gained exposure to the software and data-processing systems that support satellite operations and space research. The visit gave students valuable insight into the application of computer engineering and information technology in real-world space missions, and was coordinated by Prof. Anil Prajapati.

AI Expo 2026

On 01 May 2026, the Department organized AI Expo 2026, an exhibition showcasing Artificial Intelligence projects developed by 5th-semester students. Students presented their AI-based

applications and models, demonstrating practical implementations of machine learning, data processing, and intelligent systems developed as part of their coursework. The expo provided a platform for participants to explain their project concepts, methodologies, and outcomes to faculty and peers, encouraging hands-on learning, innovation, and a deeper understanding of real-world AI applications.



Project Vista 1.0

On 02 May 2026, the Department organized Project Vista 1.0, a live project demonstration and poster presentation event for 7th-semester students. Students showcased their final-year projects through live, hands-on demonstrations along with detailed posters explaining their objectives, methodologies, and outcomes. The event gave students an opportunity to present their technical work to faculty and peers, sharpen their presentation and communication skills, and receive valuable feedback ahead of their final evaluations.

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Mechanical & Automobile Engineering Department

Study Abroad Awareness Program

The Department of Mechanical and Automobile Engineering organized a Study Abroad Awareness Program for all departments on Tuesday, 3rd February 2026 at 11:00 AM onwards in the Mechanical Seminar Hall (6206). The session was delivered by Chirag Joshi, Founder of Navigator's Education, having over 19 years of experience in guiding students for international education. The event was conducted under the patronage of Dr. J. A. Vadher, Principal, and under the guidance of Dr. U. V. Shah, Professor & Head, Mechanical Engineering Department, and Dr. R. J. Jani, Associate Professor & Head, Automobile Engineering Department. The program was successfully coordinated by Dr. P. M. Mistri, Prof. M. G. Patel, Prof. H. I. Chaudhari, and Prof. K. V. Fadadu, with 107 active participants across various departments. The session provided valuable insights into opportunities for higher studies abroad, including guidance on university selection, admission processes, scholarships,

and career prospects. It created an informative and motivating environment, encouraging students to explore global education opportunities and plan their future academic paths effectively.



Research and Development Opportunities for an Academician

The Department organized an expert talk on "Research and Development Opportunities for an Academician" on 5th February 2026 from 11:30 AM to 1:30 PM in the Mechanical Seminar Hall (6206). The session was conducted as a part of the Faculty Development Programme. The expert speaker for the session was Dr. G. P. Vadodaria, Principal, SSEC Bhavnagar, who shared his valuable insights and experiences in the field of research and academic development. The event was conducted under the patronage of Dr. J. A. Vadher, Principal, and coordinated by Dr. U. V. Shah, Professor and Head of Mechanical Engineering Department. The program was successfully organized with the efforts of faculty coordinators Dr. P. M. Mistri and Dr. A. J. Patel. The session provided meaningful guidance on research opportunities, funding avenues, publication strategies, and academic growth. It created an informative and engaging

DEPARTMENT SPOTLIGHT

environment, motivating faculty members to enhance their research capabilities and contribute effectively to academic excellence.



Industrial Visit to Energy Mission Machineries (India) Ltd.

The Department organized an industrial visit to Energy Mission Machineries (India) Ltd. on 7th March 2026 with the objective of providing students practical exposure to modern manufacturing technologies and industrial practices. During the visit, students gained valuable insights into the design, manufacturing, assembly, testing, and quality control processes involved in advanced sheet metal machinery. Company experts explained various production techniques, machine operations, maintenance practices, and safety measures followed in the industry. The program was successfully coordinated by Dr. D. R. Shah and Prof. R. B. Shah with support from the Head of Department, Dr. U. V. Shah, and Principal, Dr. J. A. Vadher.



Science and Humanities Department

Expert Talk on “Applications of Differential Equations in Engineering”

An expert talk on “Applications of Differential Equations in Engineering” was delivered by Dr. Y. M. Parmar, Assistant Professor, Government Engineering College (GEC), Gandhinagar, on 7th April 2026. The expert talk was organized by the Department of Science and Humanities for first-year engineering students. The session aimed to help students understand the significance and practical applications of differential equations in various branches of engineering. The event was coordinated by Prof. L. S. Narsingani, Prof. D. J. Prajapati, and Prof. K. B. Naik.



RESEARCH AND OUTREACH

Applied Mechanics & Civil Engineering Department

Dr. S. S. Singh, Professor in Civil Engineering at GEC Modasa, delivered an expert lecture on “Climate Change: Concepts & Processes” at L. D. College of Engineering, Ahmedabad, as part of the One Week STTP on “Impact Assessment of Climate Change on Water Resources,” dated 10/03/2026.

Electronics & Communication Department

Prof. S. Banker, Prof. J. Chakravorty, Prof. C. Bariya, and Prof. B. Brahmbhatt published “Technical and Economic Assessment of Metaheuristic Optimization Techniques for a High DER-Integrated IEEE 118-Bus Power System in Electricity Markets” in International Journal of Advanced Technology and Engineering Exploration (ISSN: 2394-7454), Vol. 13, Issue 138, dated 16/05/2026 (Publisher: ACCENTS Journals, a Unit of ACCENTS; CiteScore: 2.8).

Prof. S. A. Vahora, Prof. B. Brahmbhatt, and Prof. N. N. Maltare published “A Fuzzy-IoT Irrigation Framework with LoRa-Based Connectivity for Climate-Resilient Agriculture in Semi-Arid Regions” in Advances in Engineering and Intelligence Systems (ISSN: 2821-0263), Vol. 5, Issue 1, pp. 97–113, March 2026 (SJRI: 0.377; CiteScore: 3.1).

Prof. S. Rana and Dr. A. K. Sarvaiya published “A Comprehensive Review of SIW PIN Diode Attenuators for High-Frequency Wireless Communications” in Analog Integrated Circuits and Signal Processing (ISSN: 1573-1979), Vol. 126, Issue 22, December 2025 (Publisher: Springer; Impact Factor: 1.9; Scopus CiteScore: 2.5–3.9).

Computer Engineering & Information Technology Department

Prof. S. A. Vahora published “StarFormer: An Efficient Satellite Imagery Segmentation using Lite Linear Attention and Spectral Gating based Hybrid Transformer” in Advances in Engineering and Intelligence Systems (ISSN: 2821-0263 (Online)), Vol. 5, Issue 2, pp. 59–70, 2026

Prof. S. A. Vahora, Prof. B. Brahmbhatt, and Prof. N. N. Maltare published “A Fuzzy-IoT Irrigation Framework with LoRa-Based Connectivity for Climate-Resilient Agriculture in Semi-Arid Regions” in Advances in Engineering and Intelligence Systems (ISSN: 2821-0263 (Online)), Vol. 5, Issue 1, pp. 97–113, 2026.

Prof. S. A. Vahora delivered a keynote talk on “AI Tool for Research & Assessment” during the Academic Enrichment Programme (AEP) titled “From Brain to Bot: Cognitive Neuroscience and Generative AI for Next-Generation Teaching & Research,” organized by the Department of Electronics and Communication Engineering, G H Patel College of Engineering & Technology (GCET), CVM University, Vallabh Vidyanagar, Gujarat, dated 25/06/2026 (Invited Keynote Session).

Prof. S. A. Vahora delivered an expert session on “Innovation and Startup” during a workshop organized under the Innovation Club at Government Arts & Commerce College, Meghraj, dated 03/02/2026.

Prof. H. R. Patel delivered an expert session on “Startup Skills and Startups for Arts Students” during a workshop organized under the Innovation Club at Government Arts & Commerce College, Meghraj, dated 04/02/2026.

Dr. M. M. Goyani delivered a one-day workshop on “Optimal Feature Selection” at Shri Dhanvantari

RESEARCH AND OUTREACH

College of Engineering and Technology, Kim, dated 06/01/2026.

Dr. M. M. Goyani delivered a one-day workshop on “Clustering Algorithms” at Shri Dhanvantari College of Engineering and Technology, Kim, dated 07/01/2026.

Dr. M. M. Goyani delivered an expert talk on “Machine Learning” at Tapi Diploma Engineering College, Surat, dated 08/01/2026.

Dr. M. M. Goyani delivered an expert talk on “AI in Creativity” at Shri Dhanvantari College of Engineering and Technology, Kim, dated 25/02/2026.

Dr. M. M. Goyani delivered a three-day workshop on “Deep Learning” at J G University, Ahmedabad, dated 02/04/2026.

Prof. A. B. Parmar delivered an expert talk on “Universal Human Values” at Vishvamangalam Anera-managed Stree Adhyapan Mandir, Anera, dated 25/06/2026.

Prof. A. A. Prajapati delivered an expert talk on “Digital World and Web Development Basics” during a student development program organized under the Innovation Club at Government Arts & Commerce College, Meghraj, dated 28/01/2026.

Prof. A. A. Prajapati delivered an expert talk on “Introduction to Cloud Computing and Use of Cloud Services” during a student development program organized under the Innovation Club at Government Arts & Commerce College, Meghraj, dated 30/01/2026.

Prof. A. A. Prajapati delivered an expert talk on “Future of Digital World” during a student development program organized under the Innovation Club at Government Arts & Commerce College, Meghraj, dated 05/02/2026.

Prof. N. N. Maltare delivered an expert talk on “Data Analytics and Use of Tools” during a student development program organized under the Innovation Club at Government Arts & Commerce College, Meghraj, dated 31/01/2026.

Mechanical Engineering Department

Prof. M. G. Patel, Prof. H. I. Chaudhari, Dr. P. M. Mistri, and Prof. Milap M. Madhikar published “Enhanced mechanical, thermal, and antibacterial performance of lignin-filled PLA bio-composites reinforced with rGO-modified natural fibers for sustainable packaging” in Interactions (ISSN: 1572-9044), Vol. 274, Issue 204, dated 07-05-2026 (Publisher: Springer Nature; Impact Factor: 1.02).

Dr. J. A. Vadher, Dr. A. Patel, Krunal Modi, and Pradip Chaudhary published “Development and Optimization of a Universal Centrifugal Casting Machine Using Full Factorial Design and Predictive Modelling Techniques” in International Journal of Metal Casting (IJMC EIC) (DOI: 40962-026-01973-9), dated 06-05-2026.

Dr. J. A. Vadher delivered an expert lecture on “Industry 4.0: Design to Manufacturing” at Government Engineering College, Patan, providing valuable insights into modern manufacturing technologies, smart factories, automation, and digital transformation, dated 30/01/2026.

RESEARCH AND OUTREACH

Science and Humanities Department

Prof. K. B. Naik published “An Integrated Retail Inventory Optimization Under Time-and Price-Based Demand Considering Promotional Efforts, Preservation Technology, and Green Investment” in Process Integration and Optimization for Sustainability (Publisher: Springer Nature; Impact Factor: 2.5).

Dr. M. A. Patel published “Total Neighborhood Magic Labeling for Complete Graphs” in IAENG International Journal of Applied Mathematics (ISSN: 1992-9978; E-ISSN: 1992-9986), Vol. 56, Issue 2, pp. 769–776.

Dr. Ketan B. Naik published “Comprehensive Model for Optimal Management of Perishable Goods Incorporating Nonlinear Carrying Costs, Learning Effects and Expiration Dates” in International Journal of Productivity and Quality Management (ISSN: 1746-6474; eISSN: 1746-6482), Vol. 47, Issue 4, pp. 504–528, 1 May 2026.

Dr. M. A. Patel delivered an expert talk on “Higher Order Differential Equations” organized by the General Department at Government Engineering College, Gandhinagar, for first-year engineering students, dated 09/04/2026.

“Science is a language that transcends boundaries; it is a universal tool for understanding the world.”

Sir Chandrasekhara Venkata

"C. V." Raman

PARTICIPATION

Applied Mechanics & Civil Engineering Department

Name	Training/Program	Organization	Duration
Dr. A. J. Patel	Participated in MOOC course (12 Week) on "Smart City"	IIT Indore	19/01/2026 – 10/04/2026
Dr. A. J. Patel	Participated in one week training at LDCE on "Quantum Computing: Foundations to Future Avenues"	LD/DTE	19/01/2026 – 23/01/2026
Dr. A. J. Patel	Participated in one week training at CEPT University on "Pedagogy Shift in Civil Engineering Education, Theme: Structural Engineering"	CEPT	23/03/2026 – 27/03/2026
Dr. A. J. Patel	Industrial Training at Ranjit Buildcon Limited	DTE	18/05/2026 – 31/05/2026
Prof. Deepak Tarachandani	Impact Assessment of Climate Change on Water Resources	LD/DTE	09/03/2026 – 13/03/2026
Prof. Deepak Tarachandani	Pedagogy Shift in Civil Engineering Education (Theme: Civil Engineering Materials and Technology)	CEPT	15/04/2026 – 19/04/2026
Dr. V. R. Gor	Participated in one week training at CEPT University on "Pedagogy Shift in Civil Engineering Education, Theme: Water Resources"	CEPT	23/03/2026 – 27/03/2026

Electronics & Communication Department

Name	Training/Program	Organization	Duration
Dr. A. H. Dafda	Participated in one week training program on Quantum Computing: Principles, Algorithms and Applications	Vidush Somany Institute of Technology and Research, KSV, Gandhinagar	29/12/2025 – 02/01/2026
Dr. A. H. Dafda	Participated in one week training program on Foundations of Quantum Technologies QT-00 & QT-01	DTE, i-Hub, Ahmedabad	20/04/2026 – 24/04/2026
Prof. S. H. Mansuri	Participated in one week training program on Foundations of Quantum Technologies QT-00 & QT-01	DTE, i-Hub, Ahmedabad	20/04/2026 – 24/04/2026
Prof. S. H. Mansuri	Participated in Industrial Training at Themis Automation Pvt Ltd	Themis Automation Pvt Ltd, Ahmedabad	15/06/2026 – 27/06/2026
Prof. S. H. Mansuri	Participated in Introduction to Industry 4.0 and Industrial Internet of Things	SWAYAM-NPTEL Online Course	19/01/2026 – 10/04/2026

PARTICIPATION

Name	Training/Program	Organization	Duration
Prof. K. R. Patel	Participated in Short Term Skill Development Course on Entrepreneurship Development for the Space Sector	DTE, i-Hub, Ahmedabad	05/01/2026 – 10/01/2026
Prof. K. R. Patel	Participated in Introduction to Industry 4.0 and Industrial Internet of Things	SWAYAM-NPTEL Online Course	19/01/2026 – 10/04/2026
Dr. B. A. Brahmbhatt	Participated in Exploring Research Opportunities and Impactful Research	LDCE, Ahmedabad	04/05/2026 – 08/05/2026
Dr. B. A. Brahmbhatt	Participated in Industrial Training at Themis Automation Pvt Ltd	Themis Automation Pvt Ltd, Ahmedabad	15/06/2026 – 27/06/2026
Dr. B. A. Brahmbhatt	Participated in Signal Processing Techniques and Its Application	SWAYAM-NPTEL Online Course	24/01/2026 – 15/04/2026
Prof. P. V. Patel	Participated in Industrial Training at Themis Automation Pvt Ltd	Themis Automation Pvt Ltd, Ahmedabad	15/06/2026 – 27/06/2026

Computer Engineering & Information Technology Department

Name	Training/Program	Organization	Duration
Dr. H. R. Patel	Introduction to Large Language Models (LLMs)	NPTEL Online Certification (IIT Madras)	19/01/2026 – 10/04/2026
Prof. N. D. Goriya	Swajan Mitra: A Psychological Wellness Program for Faculties	Vishwakarma Engineering College, Chandkheda	09/02/2026 – 13/02/2026
Prof. A. K. Dodiya	STTP on Exploring Research Opportunities and Impactful Research	LD College of Engineering	04/05/2026 – 08/05/2026
Prof. A. K. Dodiya	Industrial Training: Software Development	Argusoft India Ltd., Gandhinagar	01/06/2026 – 15/06/2026
Dr. U. G. Chauhan	Introduction to Large Language Models (LLMs)	NPTEL Online Certification (IIT Madras)	19/01/2026 – 10/04/2026
Dr. M. M. Goyani	Introduction to Large Language Models (LLMs)	NPTEL Online Certification (IIT Madras)	19/01/2026 – 10/04/2026
Dr. U. G. Chauhan	Foundations of Quantum Technologies QT-00 & QT-01	CTE, Government of Gujarat (i-Hub, Ahmedabad)	20/04/2026 – 24/04/2026
Prof. P. R. Gamit	Industrial Training: Software Development	Argusoft India Ltd., Gandhinagar	01/06/2026 – 15/06/2026
Prof. A. Prajapati	Foundations of Quantum Technologies QT-00 & QT-01	CTE, Government of Gujarat (i-Hub, Ahmedabad)	20/04/2026 – 24/04/2026
Prof. A. Prajapati	Introduction to Industry 4.0 and Industrial Internet of Things	NPTEL Online Certification (IIT Kharagpur)	19/01/2026 – 10/04/2026
Prof. A. Prajapati	Foundations of Deep Learning: Concepts and Applications	NPTEL Online Certification (IISc Bangalore)	19/01/2026 – 10/04/2026

PARTICIPATION

Name	Training/Program	Organization	Duration
Prof. A. Prajapati	Industrial Training: Chatbot on College Admission Inquiry	Radix Software Services Pvt. Ltd., Ahmedabad	15/06/2026 – 27/06/2026
Prof. V. A. Rathod	Industrial Training: Software Development	Argusoft India Ltd., Gandhinagar	01/06/2026 – 15/06/2026
Prof. R. J. Prajapati	Industrial Training: Software Development	Argusoft India Ltd., Gandhinagar	01/06/2026 – 15/06/2026
Dr. P. S. Modi	Industrial Training: Chatbot on College Admission Inquiry	Radix Software Services Pvt. Ltd., Ahmedabad	15/06/2026 – 27/06/2026
Prof. A. B. Parmar	Industrial Training: OnPrintShop – Web to Print Solution	Radix Software Services Pvt. Ltd., Ahmedabad	18/05/2026 – 30/05/2026
Prof. M. V. Chauhan	Industrial Training: Chatbot on College Admission Inquiry	Radix Software Services Pvt. Ltd., Ahmedabad	15/06/2026 – 27/06/2026
Prof. P. A. Bhura	Industrial Training: Chatbot on College Admission Inquiry	Radix Software Services Pvt. Ltd., Ahmedabad	15/06/2027 – 27/06/2027
Dr. R. N. Vaza	Industrial Training: OnPrintShop – Web to Print Solution	Radix Software Services Pvt. Ltd., Ahmedabad	18/05/2026 – 30/05/2026
Dr. N. N. Maltare	Industrial Training: Chatbot on College Admission Inquiry	Radix Software Services Pvt. Ltd., Ahmedabad	15/06/2026 – 27/06/2026
Dr. N. N. Maltare	Quantum Computing: Foundation to Future Avenues	LD College of Engineering	19/01/2026 – 23/01/2026

Mechanical & Automobile Engineering Department

Name	Training/Program	Organization	Duration
Dr. D. R. Shah	NPTEL-AICTE FDP: Energy and the Climate Crisis: The Path to Net-Zero Emissions	SWAYAM, NPTEL (Online)	19/01/2026 – 10/04/2026
Prof. M. G. Patel	NPTEL-AICTE FDP: Energy and the Climate Crisis: The Path to Net-Zero Emissions	SWAYAM, NPTEL (Online)	19/01/2026 – 10/04/2026
Prof. H. I. Chaudhari	NPTEL-AICTE FDP: Energy and the Climate Crisis: The Path to Net-Zero Emissions	SWAYAM, NPTEL (Online)	19/01/2026 – 10/04/2026
Prof. R. B. Shah	Exploring Research Opportunities and Impactful Research	L. D. College of Engineering, Ahmedabad	04/05/2026 – 08/05/2026
Prof. M. M. Madhikar	NPTEL-AICTE FDP: Welding Metallurgy	SWAYAM, NPTEL (Online)	20/01/2026 – 11/04/2026

PARTICIPATION

Name	Training/Program	Organization	Duration
Prof. M. M. Madhikar	NPTEL-AICTE FDP: Computer Integrated Manufacturing: From Concept to Implementation	SWAYAM, NPTEL (Online)	20/01/2026 – 11/04/2026
Prof. M. M. Madhikar	GUJCOST Sponsored FDP: Applications and Practices in CFD	GEC Valsad (Online)	22/06/2026 – 26/06/2026
Dr. J. C. Gamit	NPTEL-AICTE FDP: Advanced Measurement Techniques in Fluid Mechanics and Heat Transfer	SWAYAM, NPTEL (IISc Bangalore) (Online)	20/01/2026 – 11/04/2026

Science and Humanities Department

Name	Training/Program	Organization	Duration
Dr. K. B. Naik	Training on "Quantum Computing: Foundations to Future Avenues"	DTE (LDCE, Ahmedabad)	19/01/2026 – 23/01/2026
Dr. K. B. Naik	MOOC Training on "Applied Linear Algebra in AI and ML"	NPTEL (Online)	19/01/2026 – 10/04/2026

ACHIEVEMENTS

Mechanical Engineering - NBA Accredited

The Department of Mechanical Engineering at Government Engineering College, Modasa is proudly accredited by the National Board of Accreditation (NBA), reflecting its unwavering commitment to academic excellence, Outcome-Based Education (OBE), innovation, research, and continuous quality enhancement. The department fosters a dynamic learning environment through experienced faculty, modern laboratories, industry collaboration, and skill-oriented education, nurturing technically competent, ethically responsible, and globally competitive engineers prepared to address the challenges of the modern engineering profession.

राष्ट्रीय प्रत्यायन बोर्ड

चौथा तल, ईस्ट टावर, एन. बी. रो. प्लस, भीष्म पितामह मार्ग, प्रगति विहार, लोदी रोड, नई दिल्ली - 110003
NATIONAL BOARD OF ACCREDITATION
 4th Floor, East Tower, NBCC Place, Bisham Pitamah Marg, Pragati Vihar, Lodhi Road, New Delhi 110003



F. No.: 20-39-2010-NBA

Date: 15-06-2026

To,

The Principal
 Government Engineering College,
 Modasa, Shamlaji Road,
 Gujarat- 383315

Subject: Accreditation status of UG Engineering program applied by Government Engineering College Modasa Shamlaji Road Gujarat- 383315.

Sir,

This has reference to your application I.D. No. 10407-27/02/2025 seeking accreditation by National Board of Accreditation (NBA) to UG Engineering program applied by Government Engineering College Modasa Shamlaji Road Gujarat- 383315.

2. A Visiting Team conducted onsite evaluation of the program from 27th February to 01st March, 2026. The report submitted by the Team was considered by the concerned Committees constituted for the purpose in NBA. The Competent Authority in NBA has approved the following accreditation status to the program as given in the table below:

Sl. No.	Name of the Program(s) (UG)	Basis of Evaluation	Accreditation Status	Period of validity	Remarks
(1)	(2)	(3)	(4)	(5)	(6)
1.	Mechanical Engineering	Tier II June 2015 Document	Accredited	1 st January 2026 to 31 st December 2028	Accreditation status granted is valid for the period indicated in Col.5 or till the program has the approval of the Competent Authority, whichever is earlier

3. It may be noted that only students who graduate during the validity period of accreditation, will be deemed to have graduated with an NBA accredited degree.

Signature

Contd./_

FACULTY ACHIEVEMENTS

Dr. A. J. Patel from Applied Mechanics Department received approval on a design patent on the “Concrete Cube Moulding Device,” May 2026.



Dr. A. J. Patel from Applied Mechanics Department was awarded the NPTEL Discipline Star by NPTEL, IIT Madras, for being a topper in the course “Smart City.”

Prof. S. H. Mansuri from EC Department had his design patent for an “Octagonal Frequency Reconfigurable Slotted Patch Antenna” accepted and published by the Controller General of Patents, Designs and Trademarks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry (Application No. 440489-001), on 13/12/2024.

ACHIEVEMENTS

Dr. N. D. Patel from EC Department was awarded a Doctorate of Philosophy (Ph.D.) by Ganpat University following his Viva-Voce on 10/05/2025 (Notification No. 35/2025, F. No. 57/GUNI/PhD./FOET/631/2025). His thesis, titled “Investigation of Spectral Efficiency in Massive MIMO for Various Design Parameters and Fading Scenarios,” was submitted in Electronics and Communication Engineering under the Faculty of Engineering and Technology, U. V. Patel College of Engineering, Ganpat University, under the guidance of Dr. Vijay K. Patel.

Prof. P. V. Patel from EC Department became the Khelmahakumbh District-level Champion in badminton doubles on 07/01/2025.

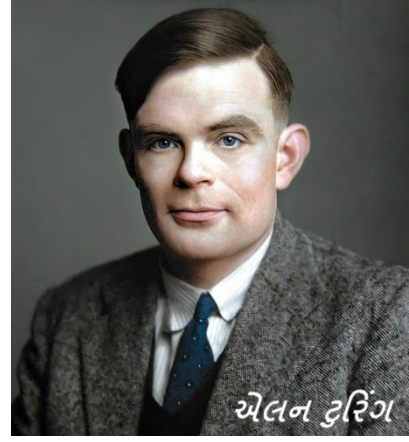
STUDENT ACHIEVEMENTS

A team of 3 students – 250163106002 Gupta Saniyakumari Rampravesh, 220160106006 Zaqi Naim Tadha, and 230160106022 Devarsh Bipinchandra Valand from Civil Engineering qualified for the final round of the Concrete Catalyst Event held at Ganpat University, Zone 2, on 29/1/2026.

“The Internet of Things is not a concept; it is a network, the true technology-enabled network of all networks.”

Edewede Oriwoh.

એલન ટ્યુરિંગ : વિજેતાનો વિષાદ અને AI નો ઉદય



મિત્રો તા. 09-03-2026નાં રોજ આપણે સહુએ ટેકનિકલ શિક્ષણ સંચાલક તરફથી આયોજિત આર્ટિફિશિયલ ઇન્ટેલિજન્સ વિષયક વર્કશોપમાં ભાગ લીધો હતો. તેમાં ફેબ્રુઆરી 2026માં દિલ્હી ખાતે યોજાયેલ યોજાયેલ “India AI Impact Summit 2026”ની માહિતી આપવામાં આવેલ. આ ઉપરાંત એક અન્ય રસપ્રદ માહિતી એ હતી કે પહેલી એ.આઈ. સમીટ 2023માં બ્રિટનના “બ્લેચલી પાર્ક” ખાતે યોજાયેલી. તો એક નજર બ્લેચલી પાર્કનાં એ મહાનાયકની જે આર્ટિફિશિયલ ઇન્ટેલિજન્સનાં પિતામહ ગણાય છે. આ ક્ષેત્રના તેઓ એક એવા વિજેતા હતા જેમના પ્રારબ્ધમાં ઘેરો વિષાદયોગ પણ લખાયેલો હતો.

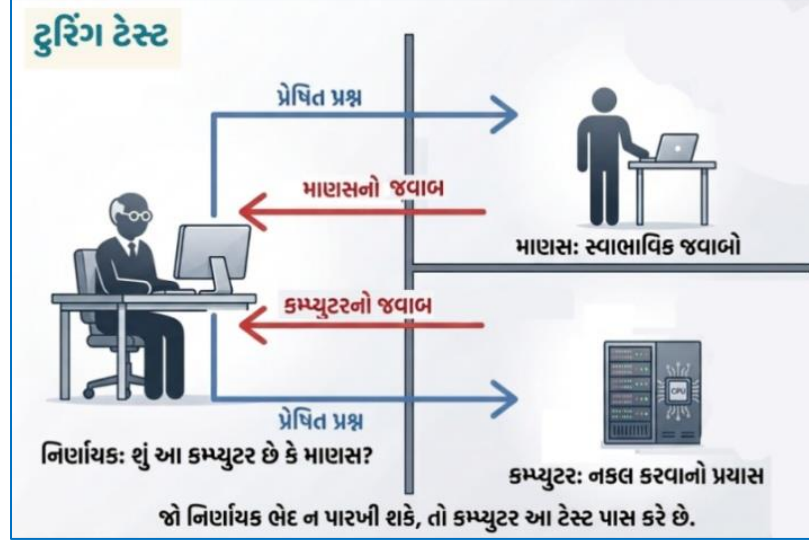
એલનનો જન્મ 23 જૂન 1912ના રોજ લંડનમાં થયો હતો. તેમના પિતા જુલિયસ ટ્યુરિંગ ઇંડિયન સિવિલ સર્વિસના અધિકારી હતા. ટ્યુરિંગનો પિંડ ભારતભૂમિ પર બંધાયો હતો અને જન્મ ઇંગ્લેન્ડમાં. કિંગ્સ કોલેજ, કેમ્બ્રિજથી ગણિતમાં સ્નાતક થયા બાદ તેમણે એક પરિકલ્પિત(Hypothetical) ગણનચંત્રની ડિઝાઇન તૈયાર કરી, જે આજે 'ટ્યુરિંગ મશીન' તરીકે ઓળખાય છે. ટ્યુરિંગ મશીનને આધુનિક કોમ્પ્યુટરનો સૈદ્ધાંતિક પાયો માનવામાં આવે છે 1939માં બ્રિટન દ્વિતીય વિશ્વયુદ્ધમાં સપડાઈ ગયું હતું ત્યારે ટ્યુરિંગની નિમણુક બ્લેચલી પાર્ક ખાતે થઈ હતી. દ્વિતીય યુદ્ધ માટે જર્મનીના ભાથામાં અનેક નવા-નવા હથિયાર અને મશીનો હતા. આ પૈકીનું એક મહત્વનું મશીન એટલે “એનિગ્મા(Enigma)”. આ મશીન જર્મન સૈન્યના સંદેશાઓને એવા ગુપ્ત કોડમાં બદલી નાખતું જેને ઉકેલવું લગભગ અશક્ય હતું. એનિગ્માનાં કોડ બ્રેકિંગ માટે બ્રિટને તેનું શ્રેષ્ઠ બુદ્ધિધન એકત્ર કરી તેને ‘બ્લેચલી પાર્ક’માં કામે લગાડ્યું હતું. આ સિક્રેટ મિશનને કોડનેમ આપવામાં આવ્યું હતું ‘પ્રોજેક્ટ અલ્ટ્રા’ અને તેના વડા હતા એલન ટ્યુરિંગ.બ્લેચલી પાર્કમાં અથાગ પ્રયાસો પછી એલનની ટીમે ‘બોમ્બ(Bombe)’ નામનું એક વિશાળ ઇલેક્ટ્રો-મેકેનિકલ મશીન તૈયાર કર્યું હતું. આ ‘બોમ્બ’ સંહારક નહિ ઉધ્ધારક હતો. લગભગ બે વર્ષની મહેનત બાદ એલનની ટીમને કોડ બ્રેક કરવામાં સફળતા મળી ગઈ. આ બહુ જ મોટી સિદ્ધિ હતી. કોઈ સેના નાયક કરતા પણ

TRENDING TECH TALKS

મોટી. ઇતિહાસકારો માને છે કે ટુરિંગ અને તેમની ટીમને કારણે કારણે વિશ્વયુદ્ધ બે વર્ષ વહેલું પૂરું થયું અને લાખો લોકોના જીવ બચ્યા. એલન ટુરિંગ આ યુદ્ધના અનામી નાયક (Unsung Hero) હતા.



1950માં ટુરિંગે કોમ્પ્યુટર એક પથદર્શક સંશોધન પત્ર(Research Paper) રજૂ કર્યું. જેનું શીર્ષક હતું "Computing Machinery and Intelligence". આ સંશોધનપત્રને આર્ટિફિશિયલ ઇન્ટેલિજન્સના ઇતિહાસમાં એક ક્રાંતિકારી દસ્તાવેજ માનવામાં આવે છે. એલન ટુરિંગે પોતાના સંશોધન પત્રમાં કમ્પ્યુટર માટે 'ઇમિટેશન ગેમ' નો પ્રસ્તાવ મૂક્યો હતો. આ ગેમ વાસ્તવમાં ઇંગ્લેન્ડની એક લોકપ્રિય પાર્ટી ગેમ પર આધારિત હતી. આ પાર્ટી ગેમમાં ત્રણ પાત્રો હતા: એક પુરુષ, એક સ્ત્રી અને એક જજ/પ્રશ્નકર્તા(Interrogator). જજ બીજા રૂમમાં બેસીને પુરુષ અને સ્ત્રીને ચિઠ્ઠીઓ દ્વારા પ્રશ્નો પૂછતો, તે પુરુષ કે સ્ત્રી કોઈને જોઈ શકતો નહોતો. પુરુષનું કામ જજને છેતરીને એવું માનવા મજબૂર કરવાનું હતું કે તે પોતે 'સ્ત્રી' છે. તે પોતાના જવાબો સ્ત્રી જેવી વિચાર શૈલીથી લખતો. સ્ત્રીનું કામ જજને સાચું ગાઇડ કરવાનું હતું કે, "હું જ અસલી સ્ત્રી છું, પેલો પુરુષ ખોટું બોલે છે." અંતે, જો જજ છેતરાઈ જાય અને પુરુષને સ્ત્રી માની લે, તો પુરુષ ગેમ જીતી જતો, નહીં તો સ્ત્રી. એલન ટુરિંગે પોતાના રિસર્ચ પેપરમાં પ્રશ્ન મૂક્યો: "જો આ રમતમાં પુરુષની જગ્યાએ આપણે કોઈ કમ્પ્યુટર મૂકી દઈએ, તો શું થશે?" જો કમ્પ્યુટર આપણને પ્રતિત કરાવવામાં સફળ રહે કે 'તે માણસ છે' તો તે બુદ્ધિશાળી ગણાય. એટલેકે "આર્ટિફિશિયલ ઇન્ટેલિજન્સ" ધરાવતું ગણાય. એક રસપ્રદ વાત. જ્યારે તમે ઇન્ટરનેટ પર કેપ્ચા(CAPTCHA) કોડ ભરો છો, ત્યારે તમે અજાણતા જ એલન ટ્યુરિંગની યુક્તિનો ઉપયોગ કરી રહ્યા હોવ છો! 'CAPTCHA' એટલે 'Completely Automated Public Turing test to tell Computers and Humans Apart'. કેપ્ચા એ એક "રિવર્સ ટુરિંગ ટેસ્ટ" છે. કેપ્ચામાં જે તે વેબસાઇટ માણસની પરીક્ષા લે છે કે સામે બેઠેલી વ્યક્તિ સાચે જ માણસ છે કે કોઈ હેકિંગ બોટ (સોફ્ટવેર). બોલો છે ને અજબ ઉલટી ગંગા. આપણે રોજ કમ્પ્યુટરને સાબિતી આપવાની કે આપણે માણસ જ છીએ!



જાન્યુઆરી 1952માં એક એવી ઘટના બની જેના કારણે એલન ટુરિંગના જીવનમાં અણધાર્યો મોડ આવ્યો. તેમના માન્ચેસ્ટર સ્થિત ઘરમાં ચોરી થઈ. ટુરિંગે આ ચોરીની ફરિયાદ નોંધાવવા માટે પોલીસનો સંપર્ક કર્યો. ટુરિંગને શંકા હતી કે આ ચોરીમાં તેમનો એક પરિચિત યુવાન આર્નોલ્ડ મરે સામેલ હતો. જ્યારે આ ચોરી અંગેની પૂછપરછ શરૂ થઈ ત્યારે પોલીસને એલન અને આર્નોલ્ડના સજાતીય સંબંધોની જાણ થઈ. તે સમયે બ્રિટનમાં સજાતિયતા કાયદાકીય રીતે ગુનો ગણાતો હતો જેને 'ગ્રોસ ઈન્ડીસન્સી' કહેવામાં આવતું. પોલીસે ચોરીની તપાસ બાજુ પર મૂકી દીધી અને ખુદ એલન ટુરિંગ પર જ કાયદાના ઉલ્લંઘનનો ગુનો નોંધી તેમની ધરપકડ કરી લીધી. બ્લેચલી પાર્ક ખાતે ટુરિંગનું પ્રદાન ગુપ્તતાનાં લોખંડી પરદાને કારણે કોઈ સરકારી ચોપડે નોંધાયેલું નહોતું. અદાલતે એલનને બે વિકલ્પ આપ્યા: 'જેલની સજા ભોગવો અથવા 'કેમિકલ કેસ્ટ્રેશન' (સ્ત્રી હોર્મોન(એસ્ટ્રોજન)નાં ઇન્જેક્શન) લો'. ટુરિંગે જેલના બદલે ઇન્જેક્શનનો વિકલ્પ પસંદ કર્યો. આ હોર્મોન થેરાપીના કારણે તેમના શરીર અને મન પર ખૂબ જ નકારાત્મક અસરો થઈ. તેમના હાથ ધ્રુજવા લાગ્યા, ચહેરા પર કરચલી વધવા લાગી. જે વ્યક્તિએ વિશ્વને નાઝી અત્યાચારોથી મુક્ત કરાવ્યું હતું, તે હવે ઇન્જેક્શન મારફત ટીપે ટીપે અત્યાચારનાં ડોઝ લઈ રહ્યો હતો. અંતે તેમની ધીરજ અંતે છેહ આપી ગઈ. 1954ના 7 જૂનના દિવસે ફક્ત 41 વર્ષની ઉંમરે એલન ટુરિંગે પોતાનો જીવ ત્યાગી દીધો. સરકારી રિપોર્ટ અનુસાર તેમણે પોટેશીયમ સાઈનાઇડ યુક્ત સફરજન ખાઈને આત્મહત્યા કરી હતી. એલન ટુરિંગની યાતના ફિલ્મ 'ધ ઇમિટેશન ગેમ(2014)'માં આબાદ ઝીલવામાં આવી છે. ટુરિંગ ભલે આજે આપણી વચ્ચે નથી, પણ તેમનો વારસો અમર છે. ટુરિંગે કહ્યું હતું કે 'આ સદીના અંત સુધીમાં આખું જગત એક મશીન પર ચાલતું હશે, જે હશે 'કમ્પ્યુટર'!

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