



# CHRONICLES

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**Madhuben & Bhanubhai Patel Institute of Technology  
(The Charutar Vidya Mandal (CVM) University)**

**GIDC Phase IV, Beyond Vithal Udyognagar  
Anand – 388121, Gujarat**





**ER. BHIKHUBHAI B. PATEL**  
**PRESIDENT, CVM UNIVERSITY**

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## **PRESIDENT'S MESSAGE**

It is a matter of immense pride to witness the remarkable journey and accomplishments of Madhuben & Bhanubhai Patel Institute of Technology as it celebrates its 17th Annual Day. Since its inception in 2009, the institute has evolved steadily into a vibrant hub of technical education—shaping skilled engineers, fostering innovation, and contributing meaningfully to society through quality teaching, research-driven learning, and a spirit of excellence.

This year's introduction of new academic programmes and the strengthening of emerging disciplines reflect MBIT's proactive vision to stay aligned with the rapidly transforming world of technology and industry. Such forward-looking initiatives not only widen the horizon of opportunities for students but also reaffirm the institute's commitment to preparing future-ready engineers equipped for global challenges.

Over the years, MBIT has built a dynamic academic ecosystem supported by modern laboratories, ICT-enabled learning environments, strong industry linkages, and a campus culture that nurtures holistic development. The consistent achievements of students in academics, placements, innovation competitions, and co-curricular pursuits stand as a testament to the conducive environment.

As we celebrate these milestones, this occasion also calls for deeper collaboration and shared responsibility. By strengthening teamwork across departments, leveraging the collective strengths of all colleges, and aligning institutional efforts with a unified strategic vision, MBIT can further elevate its stature in the years ahead.

The guiding vision and values of Charutar Vidya Mandal and The Charutar Vidya Mandal (CVM) University continue to inspire this pursuit of academic distinction and societal contribution.

On this proud and celebratory occasion, I extend my heartfelt congratulations to the entire MBIT family. May the institute continue to inspire young minds, foster innovation, strengthen collaboration, and scale new heights of excellence in the years to come.

Er. Bhikhubhai Patel  
President, The CVM University



## PROF. (DR.) INDRAJIT PATEL PROVOST, CVM UNIVERSITY

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### PROVOST'S MESSAGE

#### Celebrating 17 Years of Engineering Excellence and Innovation

It gives me immense joy and pride to extend my heartfelt wishes to the entire MBIT family on the occasion of its **17th Annual Day** and the publication of **Chronicles**.

Having witnessed MBIT's journey over the years, I have seen it evolve into a vibrant centre of engineering and technology, grounded in strong academic values and a forward-looking vision. From its early years to its present accomplishments, the institute has consistently strengthened its commitment to technical excellence, innovation, and industry-oriented learning. The inspiration of Shri Bhikhubhai Patel, President CVMU and the steadfast support of esteemed members of governing body and CVM Management have been instrumental in shaping this purposeful growth.

#### Milestones of Progress

This year, MBIT has reached significant new heights. I am particularly proud to highlight the successful organization of the India AI Impact Summit 2026 Pre-Summit Event on "Safe and Trusted AI". Such initiatives demonstrate our leadership in emerging technologies. Furthermore, our academic expansion into **B. Tech in Cyber Security and Electronics & Communication Engineering** ensures our students remain at the cutting edge of industry demands.

MBIT's true strength lies in its unity—dedicated faculty, aspiring engineers, committed staff, and proud alumni working together to transform knowledge into meaningful contributions.

As Provost of **The Charutar Vidya Mandal (CVM) University**, I feel deeply proud of MBIT's progress and remain confident that its journey ahead will be marked by even greater innovation and excellence.

My heartfelt best wishes to the entire MBIT fraternity for continued success and distinction.

Vande Mataram.  
Warm regards,  
Prof. (Dr.) Indrajit Patel  
Provost  
The Charutar Vidya Mandal (CVM) University



**DR. MAULIKA PATEL**  
**PRINCIPAL, MBIT**

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## **PRINCIPAL'S MESSAGE**

My heart is filled with immense pride while I present the remarkable achievements of our students and faculty members during the academic year 2025-26. Throughout the year, the Institute organized a wide range of enriching activities for both students and faculty members, including Faculty Development Programs, hackathons, competitions, workshops, alumni interactions, and industrial visits. These initiatives have significantly contributed to strengthening academic engagement, fostering innovation, and enhancing professional development within the Institution.

It has been truly gratifying to witness students stepping beyond their comfort zones and actively participating in diverse activities aligned with their interests. Such enthusiasm and engagement demonstrate the vibrant academic culture of MBIT. I firmly believe that with consistent efforts, individual commitment, and collaborative spirit, even the most ambitious goals can be successfully achieved.

Furthermore, the various student clubs and cells have shown their remarkable activity all round the year. This has significantly contributed to providing students with opportunities to pursue their interests, enhance their technical capabilities, and cultivate professional and leadership skills.

At MBIT, we firmly believe in the holistic development of our students. Our focus extends beyond academics to the overall grooming of individuals - technically, professionally, and personally. We remain dedicated to nurturing talent, encouraging innovation, and fostering an environment that empowers our students to realize their fullest potential.

At this juncture, I acknowledge the efforts and involvement of all stakeholders including parents, employees and alumni. I congratulate the students, faculty members and departments at large for putting up with their very best.

With the continued encouragement and support of Er. Bhikhubhai Patel, President, CVMU and Prof. (Dr.) Indrajit Patel, Provost, CVMU, we remain committed to creating even greater opportunities that will enable both students and faculty members to grow, excel, and make meaningful contributions in their respective fields.

Dr. Maulika Patel  
Principal  
MBIT, The CVM University

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# Statue Unveiling Ceremony

At Madhuben and Bhanubhai Patel Institute of Technology (MBIT), the statue unveiling ceremony was organized on 23 January 2026 in memory of Smt. Madhuben Patel and Shri Bhanubhai Patel - the inspirational founders of the institution. The ceremony was graced by the inspirational presence of CVMU President and CVM Chairman Er. Shri Bhikhubhai Patel; CVM President and CMD of Elecon Engineering, Shri Prayasvinbhai B. Patel; and CEO & ED of Power Build Private Limited, Shri Ayush Shah. The program commenced with a warm verbal welcome and felicitation of the invited dignitaries by Principal Dr. Maulika Patel. Shri Prayasvinbhai Patel addressed the students and faculty with an insightful speech. During the event, Er. Shri Bhikhubhai Patel fondly recalled the philanthropic spirit, love for education, and unforgettable contributions of Smt. Madhuben Patel and Shri Bhanubhai Patel toward social upliftment.



# Alumni Meet

The Alumni Meet 2026 was successfully organized by Madhuben and Bhanubhai Patel Institute of Technology (MBIT), The CVM University, with the objective of reconnecting alumni with their alma mater and strengthening lifelong relationships between past and present students on 3 January 2026 at 3:00 PM in the MBIT Auditorium. Total 45+ alumni joined the event. This event served as a platform for alumni to relive memories, share professional experiences, and contribute ideas for the institution's growth and development. The program emphasized networking, emotional bonding, and knowledge sharing between alumni, faculty members, and current students. It highlighted the achievements of alumni and reinforced the spirit of unity and pride associated with being an MBIT student.



# Programs and Facilities

- Established in 2009, Madhuben & Bhanubhai Patel Institute of Technology (MBIT), a constituent institute of Charutar Vidya Mandal (CVM) University, is committed to nurturing competent engineers and promoting excellence in technical education and social responsibility.
- The Institute offers B.Tech. programs with an AICTE-approved total intake of 360 students, including Computer Engineering (180 seats) and Information Technology (120 seats). The Institute started 2 new B. Tech. programs, B.Tech. in Cyber Security and B.Tech. in Electronics and Communications, with an AICTE-approved intake of 30 seats each from the Academic Year 2025-26.
- The Institute has recently purchased a 63-seater bus at an approximate cost of ₹ 33 lakhs, enhancing its transportation facilities.
- To support academically meritorious and economically needy students, various scholarships are offered by the government and management.
- A total of 444 students received government scholarships amounting to ₹1,50,80,000. A total of 9 students benefited from the Charutar Vidya Mandal fee waiver scheme worth ₹2,70,100.
- Additionally, 87 newly admitted students received CVMU scholarships worth ₹11,37,400, and 23 students were provided with financial assistance amounting to ₹56,500 under the Late Shri Rajnikant Chhotabhai Patel Scholarship and the Shri Shantilal Shankarbai Patel Scholarship.
- A total ₹1,65,44,000 is availed by students in various categories.



## 1. Introduction

The Department of Computer Engineering is supported by a committed academic team that includes 1 Professor, 3 Associate Professors, and 16 Assistant Professors, all working together to provide students with a balanced blend of theoretical understanding and practical learning. Within this faculty group, 6 members have earned their Ph.D. degrees, while 12 are actively engaged in doctoral studies, demonstrating the department's ongoing commitment to academic growth, research, and professional excellence. 15 faculty members participated in various FDPs and seminars, enhancing their knowledge in emerging areas.

## 2. Faculty Contribution

- Dr. Maulika Patel, Kinjal Joshi, Garvil Shah, Henil Patel and Tirth Jasoliyam presented a paper titled CNN - LSTM Hybrid Models for Temporal Anomaly Detection in Surveillance Videos, International Conference on Synergetic Development through Smart Technology & Digital Transformation, 25-26 June 2025.
- Dr. Maulika Patel and Shrey Patel presented a paper titled Estimating Pre-Diabetes using Non-invasive methods, International Conference on Synergetic Development through Smart Technology & Digital Transformation, 25-26 June 2025.
- Dr. Maulika Patel delivered following invited talks:
  - a. AI Research: Trends, Challenges and Opportunities, for the Faculty Development Programme, AI in Higher Education, UGC MMTTC on 26th April 2025.
  - b. Predictive Analytics in Healthcare: Early Detection and Risk Assessment on 17th September 2025 for the AICTE -ATAL Sponsored Online FDP Smart HealthL AI Solutions for Modern Healthcare Systems (15-19th September 2025) organised by Vidush Somany Institute of Technology and Research, Kadi
  - c. AI: Research, Trends and Opportunities, for the Faculty Development Programme, AI for Education organized by KJ Institute of Technology, Savli, on 30th Oct 2025
  - d. AI in Education: Balancing Innovation and Integrity for Faculty Development Programme, AI in Higher Education, UGC Malaviya Mission Teacher Training Center on 1st Nov 2025
  - e. A Mindfulness Approach to Research: Integrating Awareness, Reflection and Rigor for the One Week FDP, sponsored by Institute of Engineers, organized by Madhuben and Bhanubhai Patel Institute of Technology, CVM University, during 15-19th December 2025.
- Dr. Maulika Patel was invited to deliver motivational sessions on topics such as Cultivating Gratitude & Positivity, Support.Succeed.Sustain, Happy to Work, Happy at Work etc by various organizations such as IDMC Ltd, NDDDB, and GJPIASR for their employees
- Dr. Maulika Patel served as a Reviewer for Graduate Women in Science (GWIS) National Fellowship Program application(s), 2025

- Dr. Maulika Patel Served as Session Chair for
  - i. International Conference on Synergetic Development through Smart Technology & Digital Transformation, June 25-26, 2025
  - ii. COMS2 2025 organised by Ganpat University, Sep 2025
  - iii. One day National Seminar on AI in Research, 10th March 2026 organized by S M Patel College of Home Science, Vallabh Vidyanagar
- Dr. Maulika Patel served as a point of contact for several resource persons for organizing alumni talks and expert sessions round the year.
- Dr. Kishori Shekokar published a paper on “Explainable Fuzzy Logic in AI: Enhancing Transparency and Trust in Deep Learning Models” in Journal of Machine and Computing, Volume 5, pp. 2241–2253.
- Mr. Keyur Prajapati published a paper on Reinforcement Learning approaches for financial stock price in the International Journal of Novel Research and Development; and a paper titled “Advanced Stock Trading Strategies Utilizing Deep Q-Network and Deep Reinforcement Learning: A Dynamic Ensemble Approach” in the proceedings of the International Conference on Artificial Intelligence, Communication Technologies and Smart Cities.
- Dr. Jayna Donga published a paper titled “heTDR: Hierarchical Energy Based Clustering Head Selection with Trust Based Data Routing Protocol” in the Journal of Information Systems Engineering and Management, Vol. 10, No. 45s, pp. 1212–1228.
- Dr. Akashbhai Ashokbhai Dave and Dr. Jayna Donga published “Live Virtual Machine Migration Using Xen Server” in the Journal of Trends in Computer Science and Smart Technology, Volume 8, Issue 1, pp. 28–46.
- Ms. Ankita Chauhan published “CVAE-ADS: A Deep Learning Framework for Traffic Accident Detection and Video Summarization” in Electromedical Journal, vol. 8, no. 1, pp. 185–205.
- Mr. Mihir H. Rajyaguru published a book chapter titled “Case Studies of Smart Farming Implementations and Security Solutions” in Sustainable Agriculture Production Using Blockchain Technology, Wiley–Scrivener, published on 14 January 2026.
- Ms. Sreeja P. published a paper titled “Culturally Rooted and AI-Enhanced Cryptographic Key Generation for Secure IoT Systems: A KaTaPaYadi–N-Gram–RNN Hybrid Framework” in Bioengineering and IoT on 22 January 2026, published by Taylor & Francis.

- Ms. Shraddha Korvadiya, Mr. Vaibhav C. Gandhi and Ms. Bhumika Prajapati published a paper titled “The Impact of Deep Learning on Image Recognition and Classification: Techniques, Applications, and Future Directions” in Web Intelligence and Human-Machine Interaction on 01 November 2025, published by Springer, Singapore and along with Mr. Chetan K. Verma and Ms. Jaina Patel published a paper titled “Transforming IoT with Data Analytics: Emerging Trends and Persistent Challenges” in Advances in Computer Science Research on 4 November 2025, published by Atlantis Press, part of Springer Nature.
- Ms. Ankita Chauhan, Ms. Dipti Mathpal, and Ms. Sreeja P. presented research on Vehicle Detection using YOLO, Traffic Surveillance Systems, and IoT Energy Optimization; Ms. Sreeja P. presented “AI-Enhanced Linguistic Cryptography for Edge IoT.”; Mr. Atmiya Patel and Dr. Jayna Donga presented the paper “A Review on Traffic Surveillance System and Classification”; Dr. Nirali Anand Pandya presented the paper “A Survey on Energy-Efficient Resource Management in IoT Networks: Techniques, Trends, and Challenges” at SDSTD 2025, CVMU, 25-26 June 2025.
- Mr. Dhruv Dalwadi published a paper titled “IoT-Enabled Waste Bin Monitoring Using Raspberry Pi and Cloud-Based Analytics” in Lecture Notes in Networks and Systems, first published online on 1 October 2025 by Springer, Singapore.
- Mr. Mihir H. Rajyaguru published patents in, “Healthcare IoT systems IoT Based Detecting Brain Disease With Strong Image Processing And Segmentations Techniques”; “Smartheart: An IoT-Cloud Integrated Machine Learning Framework for Early Prediction of Cardiovascular Diseases”; “An Enhancing Mathematical Reasoning And Self-Efficacy With Problem-Based Learning, Contextual Teaching, And Machine Learning Integration”; “Ai Based Predictive Analytics Of Complex Data Sets In Diagnosis Of Critical Lung Cancer In Clinical Traits”; “IoT And Machine-Learning Based Early Detection Of Neural Disorder Like Alzheimer Using Image Processing Techniques”; “AI Based Smart Device For Heart Rate & Stress Monitor With Visual Alerts”.
- Ms. Shraddha Korvadiya received Indian Copyright Registration in 2025 for “The Synergy of AI and Computer Management for Next-Gen Healthcare Solutions.”
- Mr. Vaibhav C. Gandhi presented research papers on transformer-based object recognition, AI-assisted debugging, Kubernetes-based microservices, mesh network optimization, quantum machine learning, intrusion detection systems, and healthcare prediction models at ICNSoC 2025, NETCRYPT 2025, HSWTech 2025, and ICEARS 2025.

- Mr. Mihir H. Rajyaguru published “AI-Driven Digital Health Ecosystems: Empowering India's Economy Through Innovation and Equity in Healthcare Access” in the Journal of Neonatal Surgery, Vol. 14, No. 5S, pp. 651–663; “Blockchain and the Future of Accounting: A Critical Examination of Promise versus Practice” in the International Tax Journal, ISSN: 0097-7314, E-ISSN: 3066-2370, 2025, pp. 4999–5005; “Deep Learning-Based Multimodal Fusion Techniques for Enhanced Diagnosis and Prognosis in Complex Medical Imaging Scenarios” in the IEEE 5th International Conference on ICT in Business, Industry & Government, Indore, India, pp. 1–7; “Data-Driven Crop Forecasting Framework Using Satellite Imagery and Machine Learning for Food Security Planning” in TPM – Testing, Psychometrics, Methodology in Applied Psychology; “Robotics and Image-Guided Navigation in Complex Endovascular Procedures: A Systematic Review of Current Trends” in Vascular & Endovascular Review, Vol. 8, No. 13S, pp. 249–255 ; “Homomorphic Encryption and Algebraic Geometry for Privacy-Preserving Machine Learning” in the International Journal of Applied Mathematics, Vol. 38, No. 10S, pp. 1082–1094; “Cross-Lingual Zero-Shot Emotion Recognition in Conversational AI Using Self-Supervised Contrastive Learning” in the Journal of Musik in Bayern, Vol. 90, Issue 10, pp. 79–88; and “AI and Neural Network Models for Personalized Mental Health Interventions” in the International Journal of Environmental Sciences, Vol. 11, No. 23S.
- Dr. Jayna Donga developed an AI-driven Automation Device (Design Patent).
- Dr. Akashbhai A. Dave developed an AI-based Women’s Safety Wristband (Design Patent) and received Indian Copyright Registration in 2025 for “AI-Powered Smart Voting Machine with Biometric Authentication.”
- Mr. Vaibhav C. Gandhi received a patent on “GripNet: An Intelligent Sensor Network for Hand Strength Assessment”, “IoT-Based Rehabilitation Chair”, “AI-Powered Hand Therapy & Grip Strength Device”, “IoT-Based Sport Therapy System for Injury Rehabilitation”.

### 3. Faculty Achievements

- Dr. Maulika Patel was invited to Deliver a Keynote talk on Future Trends in AI based diagnostics at the International Conference on Vision Technologies in Eye Care organized by the Loyola ICAM College of Engineering & Technology and Dr. Agarwal’s College of Optometry on 24-25th Oct 2025, Chennai.
- Mr. Mihir H. Rajyaguru secured First Rank in Poster Presentation for “Cardiac Arrest Detection and Heart Disease Prediction Monitoring System with IoT, Deep Learning and CNN” at BCCIS-2026, held on 19-20 February 2026 at ISTAR, The CVM University.
- Dr. Jayna Donga received the NPTEL “Top Performing Mentor Award” for “Introduction to Internet of Things” (January–April 2025), The CVM University
- Mr. Jitendrasinh Raulji received the “Academic Excellence” Award for a research contribution, The CVM University, September 2025.

- Mr. Vaibhav C. Gandhi received the “Outstanding Research Contribution and Dedication to Excellence Award” and “Valuable Research Contribution and Dedication to Academic Excellence Award”, The CVM University, September 2025.

#### **4. Student Achievements**

- Mohamad Nadeem Memon was awarded Second Rank for highest marks in Certificate of Excellence (IDEATHON-21) at Parul University under the SSIP Program, held on 20–21 December 2025.
- Yasminkhatun Sekh served as Mentor at AISYWLC 2025 Conference at the national level and guided technical projects addressing real-world problems, and along with Shyam Patel represented MBIT at the IIC Regional Meet 2025 organized by AICTE and the Institution’s Innovation Council (IIC) at the national level.
- Harshita Mohapatra secured Third Rank in the Inter-College Essay Writing Competition organized at ILSASS, Anand on 2 August 2025 at the university level.
- Neel Navdiwala was selected as Brand Ambassador for IEEE Day 2025 under the IEEE Gujarat Section and also served as Newsletter Editor representing the same.
- Harshita Mohapatra secured Third position in Essay Writing Competition, ILSASS, CVM University, 2 August 2025.
- Khushmeet Patil, Keya Sheth, and Nehalkumar Fulbariya published a research paper titled “AI-Based Companion Robot for Emotional Support and Independent Living” in the STSTD Journal at the university level.
- Ms. Anjali Tripathi successfully completed the online course “Basics of Remote Sensing, Geographical Information System and Global Navigation Satellite System,” conducted by the Indian Institute of Remote Sensing (ISRO), Dehradun, from 25 August 2025 - 21 November 2025, securing Grade A with 100% attendance.
- Arman Sunasara, Parmar Sujal Sureshbhai, and Prajapati Gunjan Mukeshbhai earned the NCC B-Certificate with Grade ‘A’ at the national level after participating in the NCC Camp held at Vallabh Vidyanagar in May 2025.
- Yasminkhatun Sekh and Mr. Vaibhav C. Gandhi co-authored “PhantomWall: A Transformer-Autoencoder Ensemble Approach for Adaptive Zero-Day Web Application Firewall Defense,” accepted for presentation at the IEEE CIS World Conference on Computational Science and Technology, held on 26-27 March 2026 at Chandigarh University, India.
- Manas Ajaykumar Choksi, Hem Ajit Patel, Harshdeepsinh Jadeja, and Karmadeepsinh Gohil secured First Position in VentureX (IEEE R10 ACEI Gujarat Section) and Inno Venture (IEEE India Council & Nirma University) during September–October 2025.
- Prakruti Patel secured Third position in Dumb Charades at Youthfest 2025, CVM University.
- Rabari Mihirkumar, Laukik Rajput, Khushi Trivedi, and Janviben Patel secured First Position at Intellihack 2025, organized by DAIICT in September 2025.

- Manas Ajaykumar Choksi and Jiya Nileshkumar Patel secured First Position in “Operation Trinetra – A Defense Hackathon” organized by IEEE WIE CEG & TVS at the national level in September 2025 and received an internship offer from TVS.
- Manas Ajaykumar Choksi, Jiya Patel, and Yasminkhatun Sekh received the Best People’s Choice Special Recognition Award with ₹1,000 prize money at “Triwizardathon 1.0” organized by Microsoft in August 2025.
- Manas Choksi, Yasminkhatun Sekh and Kushal Rangoonwala secured Second Consolation Prize (₹10,000) in AI/ML Hackathon 2.0 organized by MyOnSite Healthcare in June 2025; Manas Choksi and Laukik Rajput, Mihir Rabari, and Hem Ajit Patel secured First Position at Dev Summit 2025, organized by Jagannath University in March 2025.
- A total of 11 student projects received SSIP grants ranging from ₹5,000 to ₹40,000, including projects such as AI Based Companion Robot, Mind Controlled Robotic Arm, Smart Glasses for Blind People, and AI Based Track Guard with a total grant of ₹1,84,000 during the reporting period.

#### **5. SWAYAM-NPTEL Enrollment**

- 15 students from 6th Sem (A.Y 2025-26\_Even) and 28 students from 7th Sem (A.Y 2025-26\_Odd) have opted for credit transfer in the course “Compiler Design.” and “Introduction to Internet of Things.” in 6th Sem and course “Cloud Computing.” and “Computer Network.” in 7th Sem .

#### **6. Events Organized (FDP/Workshop/Seminar/Webinar)**

- National Level Faculty Development Program on “Advancing Research: Excellence through Innovation and Collaboration” 15-19 December 2025 coordinated by Dr. Gopi Bhatt and co-coordinated by Dr. Kishori Shekokar.
- Only Founders Hackathon, 9-10 January 2026 coordinated by Prof. Sunit Parmar.
- One-Week FDP on “Machine Learning, Computer Vision, IoT, and SAP Technical Skills,” 25-28 November 2025 organized in collaboration with Center of Excellence (CoE), coordinated by Mr. Mihir H. Rajyaguru and co-coordinated by Ms. Anjali Suthar.
- Ideathon, 14 October 2025 coordinator Mr. Manav Patel and Mr. Harsh Goswami.
- An expert talk by Mr. Hitanshu Shah on “From Idea to Product” was organized on 13 February 2026 coordinated by Mr. Manav and Ms. Anjali Suthar.
- An Expert Talk on "Safe and Trusted AI" to celebrate the Pre-Summit Event of the India AI Impact Summit 2026 on 17 February, 2026 the Experts: Mr. Chintan Rajyaguru, Sr. Staff Architect, Nvidia HQ, California, USA and Dr. Amit Ganatra, Director (Dean) R&D and Dean FoET. The event was coordinated by Mr. Mihir H. Rajyaguru.

#### **7. Industrial Visits**

- An Industrial visit to the Top’s Technologies, Ahmedabad was organized in 21 February 2026 for 50 students of the B.Tech-CE Batch 2024-2028.

- An Industrial visit to the Tinkering Lab IIT, Gandhinagar was organized in 07-08 April 2025 for 100 students of the B.Tech-CE Batch 2023-2027.
- An Industrial visit to the Vikram Sarabhai Space Exhibition, Ahmedabad was organized in 08 May 2025 for 50 students of the B.Tech-CE Batch 2025-2029.
- An Industrial visit to the E-infochips, Ahmedabad was organized in 11-12 August 2025 for 100 students of the B.Tech-CE Batch 2023-2027.
- An Industrial visit to the Rishabh Software, Vadodara was organized in 15 September 2025 for 40 students of the B.Tech-CE Batch 2022-2025.
- An Industrial visit to the Smart City Project Munciple Corporation, Vadodara was organized in 28 January 2026 For 96 students of the B.Tech-CE Batch2024-2028.
- An Industrial visit to NAMTECH, Gandhinagar was organized in 31 January and 02 February 2026 for 150 students of the B.Tech-CE Batch 2023-2027.



## 1. Introduction

The department comprises of 18 Assistant Professors, forming a dedicated team focused on delivering strong theoretical and practical knowledge to students. Among them, 4 faculty members have completed their Ph.D., while 11 faculty members are currently pursuing doctoral research, reflecting the department's strong emphasis on continuous professional development and research advancement. 13 faculty members participated in 38 FDP, workshop and seminar focusing on recent trends.

## 2. Faculty Achievements

- Dr. Pritesh Pandey was awarded a Ph.D. in May 2025 in the field of “Image Representation with Caption Generators and Auto Tagging” from Gujarat Technological University, marking a significant milestone in his academic and research career.
- Dr. Priyanka Panchal was awarded a Ph.D. in November 2025 in “Social Tag Recommendation for Video content using Deep Learning”, from Gujarat Technological University, marking a significant milestone in her academic and research career.
- Dr. Sunayana Domadia was awarded a Ph.D. in May 2025 in “Segmentation and Analysis of MRI images of Glioblastoma Brain Tumors using Deep Learning” from Gujarat Technological University, marking a significant milestone in her academic and research career.
- Dr. Pritesh Pandey serves as an IT Expert Committee Member for the Erasmus+ project “Fostering Inclusive and Equitable Quality Education to Stimulate Lifelong Sustainable Learning Opportunities for HEIs in India” (Project No. 101082909), funded by the European Commission with a total budget of €400,000 (CVMU share: €69,765) for 2023-2026. He also attended the concluding Erasmus Project event and International Conference at Sarvajanic University, Surat, from 25-27 February 2026.
- Mr. Jimesh Rana and Ms. Bhumika Prajapati were awarded “Research Excellence Award” by CVM University, V.V.Nagar for publishing the best paper in International Journal on 25 September 2025

## 3. Student Achievements

- Soham Kulkarni, a 3rd year student (Team Geeks), secured 1st position in “Hack Innovate 2026,” a hackathon focused on Artificial Intelligence and Operations Research, organized by Adani Institute of Digital Technology Management, held from 8-9 January 2026. The team was awarded a cash prize of ₹1,00,000.
- A Team comprising Rajul Nandini Devendrasingh, Dimple Narendra Firake, Pranali Chahwala secured funding approval of ₹20,000 under SSIP 2.0 (CVMUISIC) for their innovative project titled “UPI Based Water Dispenser”, recommended by the committee on 12 August 2025.

- Sneh Brahmhatt participated in “ROBOFEST Gujarat 5.0 – Engineering the Future” under the Application-Based Robot category, organized by Gujarat Council on Science and Technology (GUJCOST) at Ahmedabad Institute of Civil Engineering, Gandhinagar, held during 28–30 December 2025. In the Proof of Concept (PoC) stage, the team developed a working model and received financial assistance of ₹50,000 for prototype development. The project advanced to the Final Prototype Development stage, where the team was awarded an additional ₹2,00,000 grant to develop a complete and fully functional prototype of the proposed system.
- A team comprising Vidisha Mistry, Shreya Suthar, Pavankumar Patel, and Dhruv Prajapati participated in “ROBOFEST Gujarat 5.0 – Engineering the Future” under the Aerial Robotics Minefield Navigation Challenge Robot category, organized by Gujarat Council on Science and Technology (GUJCOST) at Ahmedabad Institute of Civil Engineering, Gandhinagar, held during 28-30 December 2025. They received ₹50,000 financial assistance during the Proof of Concept (PoC) stage for developing and demonstrating the working model of their project. The team advanced to the Final Prototype Development Stage, where they were awarded an additional ₹2,00,000 grant to develop a complete and fully functional prototype of their system.
- A Team comprising Patel Nancy, Anjali Tripathi secured funding approval of ₹11,000 under SSIP 2.0 (CVMUISIC) for their project “Intelligent Pipeline Blockage Detection System”, recommended by the committee on 12 August 2025 and reviewed on 19 August 2025.
- Patel Parth Nitinbhai was recognized as a member of the winning team “Funcepual” for outstanding performance and excellence in approach at ISTE MBIT SG, organized on 30 July 2025.
- Neelkumar Patel has demonstrated outstanding talent across multiple competitive platforms. He secured the Runner-Up position in the West Zone English Debate Competition and was crowned the West Zone Mimicry Champion, showcasing exceptional oratory, creativity, and stage presence. At Yugantar, he achieved remarkable success by securing 1st Position in English Debate, Mimicry, and Quiz, along with 2nd Position in Cartooning, reflecting his diverse skills in communication, performance, and artistic expression. He was also recognized as the 8th Best Speaker among 150 participants at the State-Level Viksit Bharat Youth Parliament held at Gujarat Vidhan Sabha, highlighting his exceptional public speaking ability, critical thinking, and leadership qualities.

#### **4. IoT Laboratory Development**

- The Department established an IoT Laboratory worth ₹1,60,600 (Rupees One Lakh Sixty Thousand Six Hundred). IoT Laboratory is equipped with a comprehensive suite of hardware, including Raspberry Pi , Arduino Uno, and NodeMCU platforms, providing students with a robust foundation for building scalable, connected systems.

#### **5. Research Publications**

- Ms. Jagruti Prajapati presented a research paper on “Enhancing Blood Glucose Prediction with Deep Learning Models: A Focus on BiLSTM Model”, at International Conference (SDSTD2025) organized by The CVM University, VV Nagar during 25-26 June 2025.

- Ms. Jagruti Prajapati published a research paper on “Bi-LSTM-Based Multivariate Time Series Model for Predicting Blood Glucose in Type-1 Diabetes” in International Journal of Innovative Science and Research Technology, Volume 10, 2025, ISSN:2456-2165, pp. 2129-2134.
- Mr. Jimesh Rana published a research paper on “Autonomous Delivery Drones Powered by AI for Urban Logistics Using a Pathfinding and Simultaneous Localization and Mapping” in International Journal of IEEE, 3rd International Conference on Network and Cryptography, NETCRYPT, 12 August 2025.
- Ms. Tejal Tandel published a research paper on “Wideband frequency-reconfigurable antenna for sub-6 GHz wireless communication” in International Journal of Reconfigurable and Embedded Systems, December 2025, ISSN: 2089-4864.
- Dr. Mehul Thakkar presented a paper on “AI-Based Companion Robot for Emotional Support and Independent Living” at International Conference (SDSTD2025)” organized by The CVM University, VV Nagar during 25-26 June 2025.
- Mr. Nitin Patel presented a paper on “A Study on AI-Driven Smart Farming: Integrating IoT and Deep Learning for Sustainable Agriculture” at International Conference (SDSTD2025) organized by The CVM University, VV Nagar, during 25-26 June 2025.
- Ms. Roma Barot and Mr. Jimesh Rana published a book chapter titled “A Comprehensive Review on Big Data Analytics: Methodologies, Applications, Research Challenges, and Emerging” in Web Intelligence and Human-Machine Interaction, ISBN 978-981-96-8562-2, published by Springer Nature Singapore in the year 2025.
- Mr. Dhruval Kachhiya published a paper titled “Optimizing and Securing Live Virtual Machine Migration in Cloud Computing Implemented on XenServer: A Comprehensive Approach Integrating Machine Learning, Blockchain and Hybrid Migration” in the Indian Journal of Natural Sciences on 4 January 2025.

#### **6. Events Organized (FDP/Workshop/Seminar/Webinar)**

- Mr. Harsh Goswami conducted a workshop titled “Mastering Git: Hands-on Version Control Workshop” in association with IIC at the IT Department, MBIT, during 26-27 December 2025. The session provided exposure to Git skills for efficient version control, collaboration, and project management in software development workflows, and 32 students participated on both days.
- Mr. Nitin Patel conducted a workshop titled "Introduction to IoT and Circuit Design using TinkerCAD” in association with ISTE Student Chapter at MBIT on 30 January 2026.
- Dr. Pritesh Pandey, Dr. Priyanka Panchal, and Mr. Dhruval Kachhiya conducted a Generative AI Workshop at the IT Department, MBIT on 26 April 2025. The workshop focused on emerging trends and applications of Generative AI.
- The IT Department, MBIT, in collaboration with ISTE, organized a Power BI Workshop for Analysts on 4 October 2025. The workshop aimed to enhance analytical and data visualization skills among participants. A total of 72 students participated in the event.

- Mr. Dhruval Kachhiya conducted a session titled “Problem Solving and Ideation Workshop” organized by the IT Department, MBIT in association with IIC at MBIT on 8 October 2025. The seminar focused on innovation, critical thinking, and entrepreneurial ideation, and was attended by 59 participants.
- Ms. Jagruti Prajapati, Ms. Komal Yadav, and Mr. Jimesh Rana organized an Expert Talk titled “From Idea to Investment: Funding Gateway for Startups” in collaboration with SSIP/IIC at the IT Department, MBIT on 27 August 2025. The session provided valuable insights into startup funding mechanisms and investment strategies, and a total of 78 students participated.
- Ms. Jagruti Prajapati and Ms. Jayshri Patil organized a seminar on “National Education Day 2025” in association with IIC at the IT Department, MBIT on 18 November 2025. The seminar highlighted the importance of education and innovation in nation building, and 27 students participated in the event.
- Ms. Bhumika Prajapati organized an Expert Talk titled “From Idea to Impact: Harnessing Natural Language Processing” at the IT Department, MBIT on 8 October 2025. The session focused on real-world applications of NLP and its growing significance in intelligent systems, and 72 participants attended the event.
- Ms. Jagruti Prajapati conducted a Free Health Camp titled “Empowering Women Through Wellness” at the CVM Homoeopathic Medical College and Hospital on 11 November 2025. The camp aimed to promote health awareness and wellness among women, and 25 female participants benefited from the event.
- Mr. Mayur Parmar organized a seminar titled “Funceptual” at the IT Department, MBIT on 30 July 2025. The event focused on learning through innovative and conceptual methods, and 50 students actively participated.
- Dr. Mehul Thakkar organized an Expert Talk on “Ayurveda and Health” under the ITK Committee, MBIT on 20 January 2026. The session provided insights to staff and students about Dincharya according to Ayurveda, and 57 participants attended the event.
- Ms. Jagruti Prajapati and Mr. Nitin Patel organized an Expert Talk on “Engineer to Entrepreneur: How IT Engineers Build Global Business” in association with IIC on 19 January 2026. The session focused on how IT engineers can think beyond job roles and start their own businesses and startups, and 100 participants attended the event.
- Dr. Pritesh Pandey and Dr. Priyanka Panchal organized an Industrial Project Presentation in collaboration with IIC at the IT Department, MBIT on 20 December 2025. The event focused on designing and developing practical and efficient solutions, and 140 students participated.
- Mr. Pratik Soni, Ms. Roma Barot, and Mr. Jimesh Rana conducted an event titled “Concept to Creation Poster Presentation” in collaboration with IIC at the IT Department, MBIT on 20 February 2026, in which 167 students participated.

## 7. Industrial Visits

- An industrial visit to eInfochips, Ahmedabad was organized during 13–14 August 2025 for 98 students of the B.Tech-IT batch 2023–2027.
- An industrial visit to Rishabh Software, Vadodara was organized on 16 September 2025 for 38 students of the B.Tech-IT batch 2022–2026.
- An industrial visit to TOPS Technologies, Ahmedabad was organized on 23 January 2026 for 54 students of the B.Tech-IT batch 2024–2028.
- An industrial visit to NAMTECH, Gandhinagar was organized on 30 January 2026 for 49 students of the B.Tech-IT batch 2023–2027.

## 8. SWAYAM-NPTEL Enrollment

- 15 students from 7th Sem (A.Y 2025-26\_Odd) and 2 students from 6th Sem (A.Y 2025-26\_Even) have opted for credit transfer in the course “Cloud Computing.” and “Introduction to Internet of Things.” respectively.



## 1. Introduction

The department is supported by a dedicated academic team that includes 1 Associate Professor and 17 Assistant Professors. Among the faculty members, 5 have completed their Ph.D. degrees, while 7 are currently pursuing doctoral studies, reflecting the department's commitment to academic growth and research. 14 different Faculty Development Programs were attended by faculty members on sustainable energy, quantum technologies, AI tools, research, and innovative teaching practices.

## 2. Paper Presentation

- Dr. Darshana J. Prajapati presented a paper titled “Numerical Simulation of Phytoplankton Dynamics” at the International Conference on SDSTD 2025 organized by The CVM University during 25–26 June 2025.
- Dr. Foram M. Joshi presented a paper titled “Gender Dimensions in Physics Education: The Role of Women in Indian Universities” at the IUPAP International Conference on Physics Education (ICPE) 2025, held under the aegis of International Union of Pure and Applied Physics and jointly organized by Indian Association of Physics Teachers, Indian Institute of Technology Ropar, and Indian Institute of Science Education and Research Mohali during 16–20 December 2025 at IIT Ropar.
- Dr. Foram M. Joshi presented an e-poster titled “Electron Impact Studies for CO<sub>2</sub> Ice in the Martian Atmosphere” at the European Astronomical Society (EAS) Annual Meeting 2025, held at University College Cork, Ireland, during 23–27 June 2025.
- Ms. Khusbu P. Patel presented a paper titled “Analytic Solution of a Nonlinear Ito System Using Similarity Transformation” at the International Conference on SDSTD 2025 organized by The CVM University during 25–26 June 2025.
- Dr. Foram M. Joshi presented a paper titled “Electron Impact Ionization Cross-Sections Studies of VIB Elements: Cr, Mo” at the International Conference SDSTD 2025 organized by The CVM University during 25–26 June 2025.
- Ms. Sejal N. Patel presented a paper titled “Ranking Methodologies in Fuzzy Linear Optimization: An Analytical Comparison” at the International Conference on SDSTD 2025 organized by The CVM University during 25–26 June 2025.
- Dr. Bhavesh Pithadiya presented a paper titled “Enhancing Communication Strategy for Wireless Communication Sensor Network with Improved Fusing System and Reptile Search Algorithm” at the International Conference on Innovations in Materials, Manufacturing and Energy Engineering (ICIMME'25) organized by the Department of Mechanical Engineering at Sri Sairam Engineering College, Chennai, Tamil Nadu, India, during 29–30 January 2025.

- Dr. Bhavesh Pithadiya presented a paper titled “IoT-based Energy Efficient Innovative Street Light” at the conference on Sustainable Development Goals-2030: Building the Future for Viksit Bharat@2047, organized by Vedant Knowledge System Pvt. Ltd., Rajkot, India, during 18–22 February 2025.
- Dr. Bhavesh Pithadiya presented a paper titled “Intelligent Advanced Car Parking Slot Availability Detection and Booking” at the conference on Next-Generation Public Transportation: Integrating Technology & Science and Humanities, organized by IFET College of Engineering, Tamil Nadu, India, on 15 March 2025.

### 3. Invited/Expert Talk

- Dr. Darshana J. Prajapati delivered an expert talk on “Numerical Methods and Applications in Engineering and Technology” organized by the Department of Information Technology, Birla Vishvakarma Mahavidyalaya, Vallabh Vidyanagar, on 19 February 2025.
- Dr. Foram M. Joshi delivered an expert talk on the theme “Harnessing Science, Technology, Engineering, and Mathematics for a Sustainable Future” in DLD Workshop on STEM-LED-DLD, organized by Kheda and Anand District Sahodaya at Delhi Public School Anand, on 12 July 2025.
- Dr. Foram M. Joshi delivered a talk on “ચાલો ચંદ્ર અને ખગોળ વિષે જાણીએ...” (Let’s Explore the Moon and Astronomy!) on the occasion of International Moon Day – 2025 on 19 July 2025. The program was organized by C. C. Patel Community Science Centre, supported by Gujarat Council on Science and Technology, and the session was conducted at N. L. Patel High School.
- Dr. Shreekant Pathak delivered a talk on “Project Work & Advanced Document Types in LaTeX” at the GUJCOST sponsored STTP titled “Mastering LaTeX: A Two-Day Hands-on Workshop”, organized by the Department of Mathematics, P P Savani University, during 26–27 December 2025.
- Dr. Bhavesh Pithadiya delivered a talk on “Overview of IoT Applications and Arduino-Programming for Entrepreneurs” as an Expert Talk in IIC Tech-Talk organized by KSR College of Engineering, Tamil Nadu, India on 15 March 2025.

### 4. Research Publications

- Dr. Darshana J. Prajapati co-authored a book chapter titled “Applications of Fixed-Point Iterations in Generation of Fractals for Higher-Order Complex Polynomial” in the book Banach Contraction Principle, published by Springer Nature, Singapore, pp. 137–162 ISBN: 978-98-96-4846-7, August 2025.
- Dr. Bhavesh Pithadiya published a book chapter on “Intelligent Advanced Car Parking Slot Availability Detection and Booking” in Next-Generation Public Transportation: Integrating Technology & Science and Humanities, pp. 26 ISBN 978-93-342-4606-3.
- Dr. Bhavesh Pithadiya published a book titled “Microcontroller & Embedded System” published by Scientific International Publishing House in 2025 with ISBN: 978-93-6674-210-6.

- Dr. Darshana J. Prajapati published a paper titled “Role of - Convexity in Generation of Fractals as Julia and Mandelbrot Sets via Three-step Fixed Point Iteration”, *Advances in Fractal Geometry: Theory and Applications*, Volume 10, Issue 11, *AIMS Mathematics*, 11 November 2025.
- Dr. Darshana J. Prajapati published a paper titled “Analysis of Julia sets using Viscosity Approximation-based Iteration Processes”, *Numerical Algorithms*, Volume 101, Issue 1, Springer Nature, 20 January 2026.
- Ms. Khusbu Patel published a paper entitled “Grünwald-Letnikov Finite Difference Solutions for Fractional Diffusion Models in the International Journal of Applied Mathematics” in Vol. 39, Issue 01, January 2026.
- Mr. Walsh Christian published a paper titled “Performance Optimization of Abrasive Water Jet Machining on EN8 Steel Using Taguchi Analysis” in *Recent Trends in Automation and Automobile Engineering*, Volume 08, Issue 01, April 2025.
- Mr. Walsh Christian published a paper titled “CFD Analysis on the Performance of a Centrifugal Pump” in *Research & Applications of Thermal Engineering*, Volume 08, Issue 01, April 2025.

### **5. Awards Received**

- Mr. Himanshu Mevada was awarded the “Best Batsman Award” in the CVMU Staff Cricket Tournament 2025.
- Mr. Walsh Christian, Assistant Professor, Charutar Vidya Mandal University, was awarded a Merit Certificate by the Indian Knowledge Systems Division, Ministry of Education, Government of India, for securing 75% and above in the 7th Online Workshop on “IKS-TKDL: Traditional Knowledge – Intellectual Property & People’s Rights.”

### **6. Events Organized**

- 17 February 2026: National Science Day 2026 was celebrated under the theme “Science for a Sustainable Future.”
- 18 February 2026: A Poster Presentation Competition on Energy Conservation.
- 18 February 2026: A Workshop on “Effective Sales and Marketing Strategies for Entrepreneurs/Startups” was organized in which Mr. Akhay Mengar, Senior Business Development Executive, ELECON, Anand.
- 18 February 2026: An Expert Talk on “Awareness & Capacity Building: Climate Resilience & SDGs” was organized to create awareness about climate change and the importance of Sustainable Development Goals (SDGs).

- 20 February 2026: An Expert Talk on “Energy Conservation Techniques: Pathway to a Sustainable Society” was organized in which Dr. Ritesh Patel, Professor and Head, EC Department, GCET, V. V. Nagar.
- 27 February 2026: A Workshop on “Carbon Footprint Reduction” was organized in which Dr. Nisha Daxini, Assistant Professor, ISTAR, V. V. Nagar.
- 24 November 2026: Dr. Milind Vora, Lead Administration and Deputy Manager, HR and Administration IDMC Ltd, Anand, conducted the session on “Today’s Employee-Tomorrow’s Entrepreneur”.

### 7. Patent Publication

- Mr. Walsh Christian has been granted a design patent titled “An ECG Monitor Housing” (Design Patent No. 463224-001) by the Government of India in 2025.

### 8. FDP Organized

- Dr. Shreekanth Pathak and Ms. Sejal Patel coordinated an AICTE-recognized FDP on “Sustainable Energy Technologies”, organized by National Institute of Technical Teachers Training and Research Chandigarh and conducted at Madhuben and Bhanubhai Patel Institute of Technology, 1–5 December 2025.



## Bridge Course Activities

- 24 June 2025: An NDPS Awareness Program was organized in collaboration with the District Police Department in which Shree G. G. Jasani, DSP-Anand District.
- 26 June 2025: A “CPR Training Session” was conducted by Dr. Alok Anand, Emergency Expert, Zydus Hospital, Anand to provide students with basic life-saving skills.
- 26 June 2025: A workshop on “Transformation of Space” was conducted by Ar. Ruma Singh, Assistant Professor, SMAID to develop creativity, visualization and design thinking skills.
- 30 June 2025: A seminar on “Managing Change” was delivered by BK. Jagrutiben, President, World of Silence, Brahmakumaris Center, V. V. Nagar.
- 3 July 2025: A Seminar on “Gender Equality” was conducted with officials from the Women and Child Development Department and Abhayam Women Helpline highlighted women’s rights, support systems, and gender equality.
- 3 July 2025: A Seminar on “Universal Human Values” was delivered by Meet S. Jagadish Jai Nitai Das, Secretary of ISKCON Vallabh Vidyanagar.
- 3 July 2025: A Seminar on “Stress Management” was delivered by Mr. Rajubhai Thakkar from the Art of Living Foundation.
- 4 July 2025: Road Safety Awareness Seminar was delivered by Mr. Narainsinh Solankee, RTO Inspector from Anand.
- 7 July 2025: A session titled “Unfold the Hidden Geometry” was conducted by Ar. Ruma Singh, Assistant Professor, SMAID.
- 8 July 2025: An Industrial Visit to Amul Chocolate Factory was organized for the students for providing practical exposure to industrial processes.
- 8 July 2025: A Workshop on “Underlying Patterns in Nature” was conducted by Ar. Ruma Singh, Assistant Professor, SMAID.
- 8 July 2025: A Book Review session of the book “Success” was conducted by Dr. Hemant Thakkar, Associate Professor and Head, GCET Engineering College, V. V. Nagar.
- 9 July 2025: Students visited the Amul Chocolate Plant, Mogar as part of the industrial visit.
- 9 July 2025: An Expert Talk on “Kargil War” was delivered by Dr. Chintan Patel, Assistant Professor, GCET, V. V. Nagar.
- 10 July 2025: A Seminar on “Intellectual Property Rights: A Tool for Engineering Innovation” was organized for the students..

- 8 July 2025: A Book Review session of the book “Success” was conducted by Dr. Hemant Thakkar, Associate Professor and Head, GCET Engineering College, V. V. Nagar.
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- 10 July 2025: A Seminar on “Intellectual Property Rights: A Tool for Engineering Innovation” was organized for the students..
- 10 July 2025: A Demonstration on “Fire Safety” was conducted by Mr. Mahendrasinh Ravalji.
- 10 July 2025: A Seminar on “IKS in Science, Engineering and Technology” was organized for the students in which Dr. Vibha Vaishnav, Professor & Head, Electronics Department, highlighted the contributions of ancient Indian scholars and the relevance of traditional knowledge in modern science.
- 11 July 2025: A Seminar on “Cyber Hygiene” was organized for the students, in which Dr. Sharvesh Trivedi, IT Head, CVM University.
- 24 July 2025: An informative session on “Government Schemes” was conducted by Mr. Ramesh Patel, President, Lions Club, Anand, followed by an NSS Orientation Program by Ms. Khushbu Patel,



## CVMU Conference

- The Faculty of Engineering and Technology at The Charutar Vidya Mandal (CVM) University, Vallabh Vidyanagar, successfully organized the International Conference Synergetic Development through Smart Technology and Digital Transformation during 25–26 June 2025 in hybrid mode. A total of 157 research papers were presented across five thematic tracks through multiple technical sessions. The Computer Engineering and Information Technology track sessions as well as the Valedictory Ceremony were organized at Madhuben and Bhanubhai Patel Institute of Technology. Dr. Foram M. Joshi served as one of the conference conveners, while Dr. Pritesh Pandey, Dr. Mehul Thakkar and Dr. Shrikant Pathak acted as Track Coordinators from MBIT, playing a key role in organizing and conducting the technical sessions.

## CVMU Hackathon

- The Fourth Edition of the CVMU Hackathon was jointly organized by Madhuben and Bhanubhai Patel Institute of Technology and A. D. Patel Institute of Technology on 6 – 7 March 2026, with coordination by Mr. Chetan Verma, Assistant Professor, Department of Information Technology, MBIT.
- The hackathon received an overwhelming response with 351 teams from 35+ institutes, out of which 134 teams qualified for the Grand Final Round after initial evaluation. The competition was conducted under categories, including Life Science & Agriculture, Engineering & Technology, Emerging Technologies, along with a special category for School Student Innovation. Projects were evaluated by a panel of experts from academia and industry based on innovation, technical feasibility, implementation, and impact, with a total prize pool of ₹1,00,000.
- MBIT students achieved remarkable success, securing top positions in multiple categories. Team CitySolve won the Engineering & Technology category (₹15,000) under the mentorship of Prof. Sunit Parmar. Team The Shield secured 1st Runner-Up in Life Science & Agriculture (₹10,000) mentored by Ms. Bhumika Prajapati, while Team Linear Depression achieved 2nd Runner-Up in Emerging Technologies (₹5,000) under Prof. Sunit Parmar. The winners were felicitated by President Er. Shri Bhikhubhai Patel and Chief Guest Dr. Monarch Shah during the valedictory function.



## Placement Highlights

- A total of 78 companies visited the campus for recruitment, including Gateway, Crest, IAMOPS, Synoverge, Einfochips, EsparkBiz, Alpha-e-Barcode, ZealousWeb, Streebo, Enacton, Bacancy, Zignuts, Emgage, Instance IT, Casepoint, Netweb Infotech, Matlab Infotech, Weblines India, Thinkbiz, Inkey IT, LaunchEd Global, SilverTouch Technologies, Averixes Solution, Unlox Learning, VasyERP, Knovos, Bigscale, La Net, ML Veda, Brainy Beam, CEREBULB, Captiva, Holy Ideas Production, Moon Technologies, Haron, FLOMZ, AT Bots, Inexture Solutions, Unified Reach Pvt. Ltd., Kriit Technologies Pvt. Ltd., AugustCode Solution Pvt. Ltd., and Xpertnest Solutions Pvt. Ltd.
- A total of 103 students were successfully placed, including 70 students from the Computer Engineering (CE) department and 33 students from the Information Technology (IT) department.
- The highest package offered was 6 LPA, while the average package was 3.77 LPA.
- During the year, the Training and Placement (T&P) Cell organized several programs to enhance students' aptitude, technical knowledge, and employability skills. A 48-hour Aptitude Training Program covering Quantitative, Logical Reasoning, and Verbal Ability was conducted by Dhyey Academy during March–April 2025 for 266 students. Technical sessions included “Insights into Data Structures and Algorithms (DSA)” on 20 September 2025 by MD Shabbir Ahmad (46 participants) and a “Git & GitHub Hands-on Session” on 3 October 2025 by Manas Choksi and MD Shabbir Ahmad (26 participants). An Interview Skill Development Session was organized on 17 January 2026 by Mr. Satyam Raval, Deputy General Manager, Tech Elecon Pvt. Ltd., with 85 students participating. Additionally, an Industry-Oriented Certification Program under the Microsoft Elevate Initiative, in collaboration with Edunet Foundation, was conducted from 19–21 January 2026 for 4th and 6th semester students with 550 participants, and a Career Guidance Seminar on GATE was organized with Acumen Academy on 25 July 2025, attended by 227 students.
- The flagship event of CVMU, Margdarshanam, organized by the T&P Cells of ADIT, MBIT, and GCET, was held on 19 March 2026, featuring alumni interaction that guided students on interview preparation, early corporate experiences, and mock interview and group discussion practices.



## Placements 2025-26

Name of Company	No. of Students Placed	Package (LPA)
Gateway	1	4-8
Crest	1	4-6
IAMOPS	2	4-5
Synoverge	1	3.5-4.5
Einfochips	1	4
E sparkbiz	3	2.6-5
Alpha-e-barcode	2	4-6
Zealous web	1	4.2-7.2
Streebo	1	4.5
Enacton Technologies	4	3-4
Zignuts	1	4-5
Emgage	3	2.4-6
Instance IT	6	3.5-6
Casepoint	2	3-4.68
Netweb	2	4.5
Matlabinfotech	1	3-3.6
Weblines India	1	4-6
Thinkbiz	1	4-5
LaunchEd Global	10	5-7
Silver Touch	1	3-3.6

Name of Company	No. of Students Placed	Package (LPA)
Unlox Learning	1	4-7
VasyErp	2	2.4-5
BigScal	10	2.6-3.14
MLVeda	1	4.08
Knovos	1	3.6
CEREBULB	1	2.52
Captivea	1	4
Holy Ideas Productions	1	3
Moon Technolabs	1	2.16-2.40
Haron	2	2-3.6
FLOMIZ	1	2-3
Brainybeam Info-Tech Pvt. Ltd.	6	2-3
AT BOTS	1	3-4
Inkey IT Solutions Pvt. Ltd	1	3.7 -4.2
LA Net Team pvt. ltd.	1	3.6-5
Inexture Solutions	1	3
Kriit Technologies Private Limited (I)	1	1.5-2.5
Unified reach pvt. Ltd	1	1.5-2.5
Augustcode solution Pvt. ltd	1	2-3

# Women Empowerment Cell

- The Women Empowerment Cell (WEC), MBIT organized a Free Health Camp “Empowering Women Through Wellness” on 11 November 2025 at CVM Homeopathic Medical College and Hospital, CVM University. A total of 35 participants benefited from the health check-up and consultation provided by medical professionals. The event was coordinated by Ms. Jagruti H. Prajapati, HOD, IT Department and WEC Coordinator, MBIT, under the convenorship of Dr. Maulika Patel, Principal, MBIT.
- To mark the International Women’s Day celebration, WEC organized a One-Week Karate Training Program titled “EmpowerHer: Strength & Self-Defense” from 09 March 2026 to 13 March 2026 at MBIT. The training was conducted by Shihan Shri Jigneshkumar Thakkar, Black Belt 6th Dan, with support from Jagrut Mahila Sangathan, Anand. The program was coordinated by Ms. Jagruti H. Prajapati and Ms. Bhumika Prajapati, with more than 70 female students participating, promoting self-defense skills and confidence among students.



## Events & Activities Conducted

- Financial Freedom Seminar: Seminar on financial literacy and wealth management organized by SB & WIE – 13 February 2025
- Ideathon: Idea generation competition encouraging innovative solutions to real-world problems – 21 February 2025
- Cyber Security Workshop – “Securing Industrial Systems: AI & Emerging OT Cybersecurity”:  
Workshop on industrial cybersecurity and AI applications in OT security – 5 March 2025
- Women’s Day Celebration: Event celebrating Women’s Day and promoting women in engineering and technology in collaboration with IEEE WIE – 11 March 2025
- Workshop on Graphic Designing & Digital Marketing: Hands-on workshop on design tools and digital marketing strategies – 5 August 2025
- Begin with Bytes – IEEE Orientation Program: Orientation introducing students to IEEE, its societies, and opportunities – 07 August 2025
- HackX Round 1: First round of the HackX hackathon focusing on innovative tech solutions – 15 September 2025
- LaTeX Workshop: Workshop teaching LaTeX for academic writing and research documentation – 6 September 2025
- REMspire – Unlocking the Path to the IEEE Richard E. Merwin Scholarship: Informational session about the IEEE R.E. Merwin Scholarship and application guidance – 04 September 2025
- PreXtreme Competition: Competitive programming contest preparing participants for IEEEExtreme – 21 September 2025
- VentureX 2025 – Pitch. Persuade. Power Up! - Entrepreneurship event where participants pitched startup ideas – 29 September 2025
- Idea to Reality: Ideathon encouraging participants to transform innovative ideas into practical solutions – 5 January 2026
- OnlyFounders Hackathon: Two-day hackathon focused on building startup-oriented tech solutions – 9–10 January 2026
- Industry Insiders ft. Vicharak: Industry talk featuring Vicharak on innovation, startups, and hardware development – 23 January 2026
- Conceit 2.0: Technical competition/event series engaging students in innovation and problem solving. Inauguration of same was organized through online mode. – 16 Feb 2026.

- The ISTE Student Chapter MBIT organized “Funceptual” an engaging first year student on 30 July 2025, The event Guided by Prof. Mayur Parmar and concluded successfully with enthusiastic participation from the students.
- A two-day workshop on “Real-Time Web with Next.js and Redis” was organized on 18–19 September, 2025, at MBIT for 5th semester Computer Engineering students. The workshop was conducted by Mr. Pratik Navlani, Co-founder and Chief Technology Officer (CTO). The event was coordinated by Mr. Keyur Prajapati and Dr. Akash Dave, and received positive feedback for its practical learning experience.
- The ISTE Student Chapter hosted a hands-on workshop on “Introduction to IoT & Circuit Design using TinkerCAD” on 30 January 2026, at D004 Lab, MBIT, conducted by Mr. Nitin Patel, Assistant Professor, IT Department, MBIT and coordinated by Mr. Mayur Parmar. The workshop provided students with practical exposure to IoT and circuit design.
- A Poster Presentation Competition on Artificial Intelligence and Machine Learning (AI/ML) was organized on 12 February 2026 coordinated by Mr. Mayur Parmar and Ms. Tejal Tandel. The event successfully provided a platform for students to demonstrate their knowledge and presentation skills.



# National Service Scheme (NSS)

- The NSS Unit of Madhuben & Bhanubhai Patel Institute of Technology (MBIT) actively organized a wide range of activities during the academic year 2025–26 to promote community service, social awareness, and holistic development of students. The year began with a Thalassemia Testing Camp conducted in collaboration with the Indian Red Cross Society, where 311 blood samples were collected for screening. Environmental initiatives such as tree plantation, water pots for birds, herbal garden development, and the Plastic-Free Campus campaign encouraged sustainable practices and environmental responsibility among students.
- Health, safety, and awareness programs including International Yoga Day, fire safety demonstrations, Road Safety Quiz, and Nasha Mukta Bharat Abhiyan helped promote a healthy and responsible lifestyle. The NSS unit also celebrated important national occasions such as Independence Day, NSS Day, Republic Day, National Voters' Day, and the 150 Years of Vande Mataram Programme to instill patriotism, democratic values, and civic responsibility among students.
- Community engagement was further strengthened through a One-Day NSS Camp and a Special NSS Camp at Mogri Village, where volunteers conducted awareness activities on cleanliness, health, and social responsibility. Students also participated in the Unity March – Sardar@150, attended an educational visit to IRMA, and organized a Legal Awareness Programme in collaboration with the R. N. Patel Ipcowala School of Law and Justice for school students on safe internet use and legal rights. Overall, these initiatives successfully fostered leadership, social responsibility, and the spirit of service among NSS volunteers.



## Student Achievements

- Cadet Ohm Anand Pathak represented MBIT in the CVM University Convocation Parade (2025) and the Republic Day Parade (2026) at MBIT. He was selected for the Mavlankar Firing Competition, where he secured 3rd rank at the Battalion Level. He also performed Rifle Drill on 26 January 2026 at Shastri Maidan.
- Cadet Sujal Parmar cleared the NCC 'B' Certificate Examination with Alpha (A) Grade and was selected for the TSC IBC Camp at Thamna.
- Cadet Arman Sunasara completed the NCC 'B' Certificate Examination and secured 1st position in Tug of War at the CATC Camp at Navali.
- Cadet Gunjan Prajapati passed the NCC 'B' Certificate Examination with Alpha (A) Grade and actively participated in various NCC activities.

## NCC Activities

- MBIT NCC helped organize the Independence Day 15 August 2025 and Republic Day 26 January 2026 celebrations. Cadet Sujal Parmar commanded the parade, while other cadets assisted in escorting the chief guests.
- Regular NCC parade training was conducted every Saturday for all cadets to develop discipline and teamwork. CTO Hitesh Thakwani delivered lectures on leadership to guide the cadets.
- NCC cadets participated in the Tiranga Yatra at Town Hall, Anand, promoting Patriotism and National Unity.
- CTO and NCC cadets attended the Navali Leadership Academy Inaugural Function and visited the first camp of 38 Gujarat Battalion NCC.
- During the Rank Ceremony of 38 Gujarat Battalion NCC at ADIT, New V.V. Nagar, Sujal Parmar was promoted to Sergeant, while Gunjan Prajapati and Dhruvkumar Pateliya were promoted to Lance Corporal.



- **YUGANTAR 4.0 – CVM University Inter College Youth Festival**

MBIT showcased its versatility in cultural activities by participating in YUGANTAR 4.0 – CVM University Inter College Youth Festival with great enthusiasm. After dedicated preparation, Team MBIT delivered an impressive performance across several events and lifted the **Overall Runners-Up Trophy** in the festival, making the institute proud.

The team secured First position in Classical Percussion, Choreography, Quiz, Mimicry, and One Act Play. Second position was achieved in Cultural Procession, Debate (English), Collage Making, and Cartooning, while Third position was secured in Western Group Song, Dumb Charades, and Rangoli.

- **West Zone Inter University Youth Festival**

MBIT students showcased their talent at the AIU 39th West Zone Youth Festival as part of the CVM University team. Neel Patel (Literature), Devansh Rai, Disha Rai, Pawan Sharma, Krutagna Thesiya, Shreeharsh Luhar, Rishi Jethwa, Harshit Zinzuwadiya, and Smitraj Sisodiya (Theatre); Siya Soni, Veera Bhanushali, and Mahek Sevramani (Dance); and Sharad Mistry and Jay Chauhan (Music) were selected to represent the university.

Neel Patel secured 1st position in Mimicry and 2nd position in Debate, thereby qualifying to represent the university at the National Youth Festival to be held at Chennai from 10-14 March, 2026.

Throughout the year, these activities were carried out under the guidance of Mr. Sneh Vyas, Mr. Sagar Jani, Ms. Dipti Mathpal, and Ms. Tejal Tandel.



## • CVMU Inter-College Competitions

1. The Table Tennis team secured the Winner position at the competition held at SEMCOM on 9-10 September 2025. The team members included Hem Patel (3CE), Dhairya Shah (5CE), Abdulhusain Ratlamwala (7IT1), Saifuddin Adenwala (7IT2), and Vanshaj Sheth (7CE).
2. In Chess, the MBIT team achieved the Runners-Up position at the competition held at ISTAR on 17 September 2025. The team comprised Dhairya Shah (5CE), Pathan Manzurkonain (1CE), Tirth Soni (3CE), Soham Kulkarni (5IT), and Nikul Prajapati (5CE).

## • All India Inter-University Participation

1. MBIT students also represented the institute at the All India Inter-University Football Tournament held in Vadodara during January 2026. Mandli Jaimin Dharmendrabhai (4CE) and Surve Yash (6CE) participated in the event, proudly representing the institute at the national level.

## • National and International Achievements

1. A remarkable individual achievement was recorded by Ohm Anand Pathak (2CE2) in the field of Karate. At the All India Open Karate Championship 2025, held in Vadodara, he won a Gold Medal in Kata and a Bronze Medal in Kumite. Further demonstrating his excellence, he secured a Gold Medal in Kata at the 2nd Online International Kata Championship held on 28 December 2025, bringing international recognition to the institute.

## • MBIT College Level Sports Fest

1. Sports Fest 2025-26 was organized at MBIT, where staff and students participated in Cricket, Volleyball, Football, Tug of War, Chess, Table Tennis and Badminton.



## Maths Club

- On 8 September 2025, an educational visit to the Vikram A. Sarabhai Community Science Centre in Ahmedabad was organized. A group of 43 students from our college participated in this visit to explore various scientific and mathematical exhibits.
- On the occasion of National Mathematics Day, a guest talk was organized on 9 January 2026 on “Cryptography and Its Role in Securing Digital Communication Systems” and “Geometry and Its Applications in Science and Engineering.” The session was delivered by Dr. Mahavir Vasavada and Prof. Hema Vasavada, with 118 participants, highlighting the applications of mathematics in science and technology.
- On the occasion of National Science Day, a Poster Presentation Competition was organized on 17 February 2026.

## Personality Development Cell

- Personality Development Cell organized the “PDC Literary Event” – Poetry Recitation and Extempore Competitions on 29 August, 2025 at MBIT. The event aimed to foster students’ creativity, language proficiency, and confidence in public speaking.
- The “PDC Boot Camp, 2025” was organized by the Personality Development Cell (PDC) on 17-18 March 2025. Experts such as Mr. Ankit Pandya (Parul University), Dr. Robert Parmar (CHARUSAT), Dr. Kaushal Kotadia (SPU), Dr. Nazma Pathan (ILSASS, CVMU), Dr. Mohini Macwan (Parul University), and Dr. Amita Patel (GCET, CVMU) shared valuable insights on professional communication and career preparedness.





Dr. Maulika Patel  
Principal, MBIT

*Konect E-zine* *Daily Challenge*



My  
Two  
Lil kids  
Ready to  
Fly With endless dreams,  
Soaring confidence, feet  
grounded  
©maulika

**Fibonacci Poem**

**#JoyfulJun**  
**#हर्षमयीजून**



**Waking up to this is absolutely blissful and rejuvenating!**

**Maulika Patel**

**#MindfulnessMant**  
**@VoiceOfWom**

Some things aren't optional! I made exercise and meditation a part of my mornings! It helps me stay connected to nature, enthuse myself with fresh air and positive thoughts, and it's magical!

**Maulika Patel**



A positive Outlook towards nature, towards people, towards work, towards surroundings, and most importantly, towards self, has the potential to change lives! Do I have the attitude to change for better?

**Maulika Patel**

**OptimisticOctober**



**Nature has equipped every creature to sustain during adversities**  
**Trust, Know, Relax, Act.**

**Maulika Patel**

Today Quote

*Ability to feel joy in little things is something most of us require to re-learn!*

**Maulika Patel**

**dt**  
Distilled Thoughts

Mother is an epitome of love and warmth for her own children and everyone around. Her presence demonstrates strength unlimited. The quality of my mother that I would like to have is her ability to remain non-judgemental at all times.

Make your exit more graceful than your entry!

Maulika Patel

# The Man in the Tea Shop

Ms. Sreeja P.  
Assistant Professor  
CE Department

He stood behind the counter like a shadow. The small tin kettle hissed and whistled as the mountain wind sneaked in through the wooden cracks. Mcleod Ganj was waking up, monks wrapped in maroon shawls, tourists with cameras, dogs stretching by the roadside ..but his eyes never left the steam rising from the cup.

He was tall and lean, his face long, framed by straight, unkempt hair that fell to his temples. His teeth were blackened and chipped, as if life had chewed away at him long before tobacco did. When he spoke, it was in a low voice, not the kind that hides anger, but one that carries apology. Every word sounded like a cautious step, as though he feared the world might break if he spoke too loud.

I watched him avoid my eyes. Even when I smiled, he didn't lift his gaze. It wasn't rudeness, it was fear. A kind of deep, trembling discomfort that comes not from dislike, but from being seen. He seemed like a man who'd rather dissolve into the air around him than exist too visibly. "Chai?" he asked.

I nodded. The tea arrived in a small steel glass, strong and sweet, tasting of dust and rain and something old, like memory.

When I asked his name, he hesitated. "Tsering," he said finally, barely audible. Then, after a long pause, "Not from here."

I wanted to ask more... where he came from, what he left behind, why his eyes looked like trapped smoke. But he had already turned away, pretending to clean the counter that was already spotless.

Something in him felt older than his body. Like he had been here for lifetimes, serving tea to travellers who would never know his story.

"Have you been here long?" I asked.

He didn't answer. He looked at the kettle instead, then at the prayer wheel hanging by the door. His lips moved silently not in prayer, not in language. Just motion.

And then, almost to himself, he murmured:  
"They say tea remembers. Every cup holds the memory of water it once was."

His eyes flickered toward me then the briefest, most human moment, and in that instant, I felt it: the weight of something unspoken.

A story buried not in the earth, but in the air around him.

The evening fog arrived early in Mcleod Ganj, like an old friend who didn't need an invitation. Prayer flags fluttered slower now, their colors blurred by the fading light. I had told myself I wouldn't go back to the tea shop yet my feet disagreed.

The road was near-empty. Dogs barked at something invisible. Somewhere in the monastery, a gong sounded, deep and mournful.

The shop's bulb was still flickering, that hesitant yellow glow, the same one I'd seen in the morning. Inside, he was there, as though he had never moved. Same stillness. Same posture. Only the silence had grown thicker.

He looked up briefly when I entered, but said nothing. I sat. The kettle began to hiss again, as if it recognized me.

This time, I spoke first.  
"You said tea remembers. What did you mean?"

He poured the boiling tea into a glass. The steam rose between us like smoke from a ritual fire. "Water listens," he said slowly, "and mountains keep secrets. When you live too long here, both start whispering back."

He turned away then, gazing into the dark outside, his reflection merging with the night.

"Did you live here before?" I asked softly.

He laughed but it was a sound without joy. "Before?" He repeated, "Maybe. Or maybe I just didn't leave when I should have."

I waited. The wind rattled the prayer wheel on the door.

Then he spoke again, his voice almost breaking:

"She came for tea one morning. Like you. Her scarf was red. She said she'd come back the next day. But the mountain took her. Landslide, they said. Everyone forgot. Only the water remembers."

His fingers trembled. I saw the faint burn marks on his wrist old, white scars, like pale threads across his skin.

"She?" I whispered.

He didn't answer. Instead, he opened a small wooden box under the counter. Inside was a dried red thread the kind used in Tibetan wrist blessings.

"She left it here," he said. "And since that day, whenever I boil water, I hear her humming. Low. Soft. Just before it boils."

Outside, the wind howled. Inside, the kettle began to sing, a trembling, rising sound that filled the small room.

He looked at me then for the first time without fear and his eyes seemed to hold a thousand winters.

"Some people are never gone," he said. "They just change the way they stay."

When I stepped out, the fog closed around me like a veil. The tea burned on my tongue. It tasted of loss, memory, and something unnameable.

From behind, I heard his voice again, faint through the mist:  
"Tell her... I'm still making tea."

The future lies ahead, unknown and bright,  
A canvas waiting for the artist's might,  
A vast expanse of endless possibility,  
Where hopes and dreams find their reality.

The future is a journey yet to be traveled,  
With mysteries to unravel and secrets to be unraveled,  
A path to follow, a destiny to fulfill,  
Where the heart's desires can be realized at will.

The future is a promise of endless opportunity,  
A world of wonder and boundless creativity,  
A time where anything is possible,  
Where we can break free from the past's confines and become unstoppable.

The future is a vision of a better tomorrow,  
A world where love, peace, and happiness flow,  
Where we live in harmony with nature,  
And cherish each other like a precious treasure.

So let us step boldly into the future's embrace,  
With hope, faith, and love leading the way,  
And trust in our ability to make a difference,  
In shaping the world we want to see, with our persistence.

Let us embrace the future with open hearts,  
With a spirit of adventure and a thirst for new starts,  
For the future is not something to be feared,  
But a gift to be treasured, and a legacy to be revered.

The challenges that await us in the future's fold,  
Are opportunities for growth, and stories yet to be told,  
For every obstacle is a chance to learn and grow,  
And every setback is a chance to let our true potential show.

Let us not be afraid to dream big dreams,  
And aim for the stars, no matter how far they seem,  
For the future is a canvas waiting to be painted,  
And our imaginations are the colors that will create it.

So let us step forward into the future's embrace,  
With a sense of purpose and a vision for a better place,  
And trust in our ability to make a difference,  
In shaping the world we want to see, with our persistence.

For the future belongs to those who dare to dream,  
And those who have the courage to make it a reality,  
So let us embrace the future with open arms,  
And build a world that's full of love, light, and charms.

Let us not be held back by the fears of yesterday,  
But let the light of hope guide us along the way,  
For the future is a journey we must all undertake,  
A chance to build a world that's kind, fair, and great.

Let us not forget the lessons of the past,  
But let them be our guide, a compass that will last,  
As we forge ahead into the unknown,  
And carve out a future that's all our own.

And when the future finally comes to be,  
Let us look back with pride at what we achieved,  
For every step we take, every choice we make,  
Will shape the world we leave for those who come after our wake.

So let us embrace the future with open hearts and minds,  
And leave the shadows of doubt and fear far behind,  
For the future is a promise, a chance to make things right,  
And together, we can create a world that's bright.

## उठो युवा, ये राष्ट्र तुम्हें पुकारे

आज के युवा विदेशों में उजाला ढूँढते हैं,  
जबकि भारत की मिट्टी में  
अनगिनत सूरज रोज उगते हैं।

Yukta Patel  
2CE3

मत पूछो, इस भारत ने हमको क्या दिया  
ये तो वह भूमि है, जिनमें शिवाजी, लक्ष्मीबाई जैसे वीर जन्मे  
जहा शिवाजी की तलवारो ने बादलों को चीरकर  
स्वाभिमान की पहली बिजली जगाई,  
और लक्ष्मीबाई की हुंकार ने  
अडिग साहस को जन्म दिया।

सोमनाथ की घंटियों से लेकर  
अयोध्या - मथुरा की दीपशाखाओं तक,  
कितनी ही आंधियों आई,  
कितने ही तूफानों ने  
इस संस्कृति, आस्था को तोड़ने की ठान ली  
पर हर बार -  
यह मिट्टी अपने आप उठ खड़ी हुई।

फिरंगियों, मुघलों ने भारत को तोड़ा  
फिर भी वल्लभभाई ने सारे रजवाड़ो को जोड़ा  
संस्कृति, आस्था, पहचान सब तोड़ा  
फिर भी भारतीयों ने भारत को न छोड़ा।

और अब जब समय आया, अवसर आए  
भारत को विश्वगुरु बनाने के लिए  
तब क्यों मेरा देश का युवा डगमगाया?

उनके त्याग से सजा ये अमर धरा,  
तो फिर युवा क्यों परदेश में खो जाए ?  
क्यों जाएं परछाई बनकर किसी ओर की -  
जब अपनी मिट्टी हमें सूरज बनना सिखाए।

मत पूछो कि-

" भारत ने हमको क्या दिया ? "

प्रयास यह करो कि -

" भारत को हमने क्या दिया ? "

जिस अखंड भारत की नींव  
डाली थी सरदार वल्लभभाई पटेल ने  
आ गया है समय उस नींव को मजबूत करने का,  
और विश्वगुरु अखंड भारत बनाने का।

उठो मेरे देश के युवा  
और ठान लो मन में  
" जो मेरे देश का नहीं  
वो मेरे प्रयास का नहीं "

जय हिंद। जय भारत  
वंदे मातरम।

### रंगसृष्टि

चित्रकार ने कागज लिया और .....  
बड़े-बड़े पर्वतों को इस कागज में समा लिया।  
रंगों से उस पर्वतों को सुनहरा बना दिया।  
चित्रकार ने कागज लिया और .....  
बड़े-बड़े पेड़ों को इस कागज में समा लिया।  
रंगों से उस पेड़ों को सुनहरा बना दिया।  
चित्रकार ने कागज लिया और .....  
बड़ी-बड़ी नदियाँ कागज में बहने लगीं।  
रंगों से उस नदियाँ में मछलियाँ तैरने लगीं।  
चित्रकार ने कागज लिया और .....  
सबसे बड़े सूर्य को कागज में उतारा।  
रंगों से उस सूर्य की किरणों पर्वतों, पहाड़ों और पेड़ों को चूमने लगीं।  
चित्रकार ने कागज लिया और.....  
एक प्रकृति के मनोहर दृश्य का सर्जन किया।  
जीवन की सभी छबी में ऊजाले भर दिये।  
चित्रकार ने कागज लिया और .....

### जिंदगी नी अेक सांज

आम ने आम दिवसो गया ने,  
रोज सांज पडती गर्छ;  
रोज शोष मारता गया अेक अेक करी ने,  
जवाबदारीओ वधती गर्छ;  
सपनाओ रंघाया ने,  
डायनी रेभाओ बलती गर्छ;  
पैसा अने परिस्थिति ना आ भेल मां,  
आ जिंदगी ढलती गर्छ;  
सारा के साया डोवानी सज्जाओ,  
डर घडी घडी मलती गर्छ;  
रेडवुं डतुं नानुं अमारे पण,  
उमर छे के वधती गर्छ;  
आम ने आम दिवसो गया ने,  
जिंदगी नी सांज पण ढलती गर्छ..

# Learning by Building: Why Projects Matter More Than Perfect Code

Yasminkhatun Sabir Sekh  
6CE3

## How Hackathons Shape Real-World Thinking

For a long time, I believed that good developers were defined by how clean their code looked and how few bugs they introduced. Perfect logic. Perfect syntax. Perfect solutions. But somewhere between my first broken project and my latest working prototype, that belief quietly changed.

What I've learned is simple but powerful: real learning doesn't happen when code is perfect—it happens when something finally works.

In the early days, building anything felt intimidating. Tutorials made everything look easy, but the moment I tried to implement ideas on my own, things broke. APIs failed. Models refused to train. Features that looked elegant on paper collapsed under real constraints. And yet, every failure taught something no textbook ever could.

That's where projects—and especially hackathons—changed everything.

## From Solving Questions to Solving Problems

Classroom learning often trains us to find correct answers. Real-world building, on the other hand, forces us to ask better questions.

Hackathons don't start with step-by-step instructions. They begin with uncertainty. A vague problem statement. A tight deadline. Limited resources. And a team that may have never worked together before. There is no "right" solution—only something that works well enough to make an impact. That environment mirrors reality more closely than any exam ever could.

When building under pressure, priorities shift. Suddenly, clean architecture matters less than functionality. An elegant algorithm means nothing if the system crashes during a demo. You start thinking about trade-offs: speed vs. scalability, accuracy vs. usability, ambition vs. feasibility.

This is where thinking becomes practical—and where growth accelerates.

## Why Imperfect Code Is Often the Best Teacher

Some of the most valuable lessons come from code I wouldn't proudly showcase.

Code written at 3 a.m. Quick fixes that later turned into technical debt. Models that barely crossed baseline accuracy but proved a concept.

At the time, those choices felt messy. Looking back, they were necessary.

Building projects teaches you that engineering is not about perfection—it's about decisions. You learn to justify why something is "good enough" for now. You learn to iterate instead of restarting. You learn that refactoring is a privilege earned only after something exists.

Perfect code that never ships teaches nothing. Imperfect code that solves a real problem teaches everything.

### **Hackathons as Accelerated Classrooms**

A single hackathon compresses months of learning into days.

You don't just code—you communicate. You don't just design—you compromise. You don't just build—you explain, defend, and adapt.

In that short span, you experience the full lifecycle of a product: ideation, development, failure, debugging, presentation, and feedback. Sometimes the solution works. Sometimes it doesn't. Both outcomes are equally valuable.

Hackathons also expose you to perspectives you'd never encounter alone. Teammates challenge assumptions. Mentors question design choices. Judges care less about how complex your solution is and more about why it matters.

That shift—from complexity to clarity—is transformative.

### **Research, Projects, and the Same Core Skill**

Working on research and building projects may look different on the surface, but they share a common foundation: curiosity paired with persistence.

Research teaches patience—how to explore uncertainty without immediate rewards. Projects teach execution—how to move forward even when things aren't fully understood. Together, they shape a mindset that values exploration and delivery.

Both demand the same habit: showing up consistently, even when progress feels invisible.

### **Growth Beyond Code**

Perhaps the most underrated outcome of building is personal growth.

Projects teach ownership. Hackathons teach teamwork. Leadership emerges not from titles, but from moments when someone steps up to fix what's broken—whether it's code, communication, or morale.

Over time, you stop fearing failure. You stop waiting to feel “ready.” You start trusting the process: build, break, learn, repeat.

That mindset doesn't just make better engineers—it makes better problem solvers.

### **The Real Lesson**

Looking back, the most meaningful progress didn't come from mastering a language or framework. It came from building things that mattered—even if only to a small audience, or only for a brief moment.

Projects turn theory into instinct. Hackathons turn ideas into action. And imperfect code turns learners into builders.

In the end, learning by building isn't just about software. It's about confidence—the quiet kind that comes from knowing you can figure things out, even when the path isn't clear.

And that, more than perfect code, is what prepares you for the real world.

## **The Cost of Intelligence: How AI Is Quietly Draining The Earth**

Omprakash Patel  
6CE2

Artificial intelligence feels magical. We type a question and a model answers in seconds. But behind that smooth experience sits a massive growing problem that most people never see. AI depends on giant data centers & these facilities quietly consume enormous amounts of electricity, water & rare minerals. The world celebrates AI's progress but its environmental cost is becoming harder to ignore. Training a large AI model can use as much energy as a small town. After training the story doesn't end. Every time someone asks a model a question the servers work at full force again. Multiply that by millions of users and you get a constant demand for power. Most data centers still rely on electricity that comes from fossil fuels. The more AI grows the more carbon emissions grow with it. Water is the next hidden cost. Data centers generate heat so they need cooling systems to survive. That cooling uses millions of litres of fresh water every day. In areas already facing water shortages this becomes a serious problem. On top of that the hardware behind AI needs metals like lithium and cobalt which often come from mining operations linked to pollution and unsafe labor conditions. Still this doesn't have to be the future. There are real solutions. AI companies can shift to renewable energy, build data centers in cooler climates and design hardware that uses less power. Governments & universities can demand transparency about energy and water usage. Most importantly researchers can focus on developing smaller efficient models instead of chasing size for its own sake. AI can help humanity but only if we stop pretending it is free. The true cost is real. Once we acknowledge it we can build technology that is not just smart but responsible.

## **Change Your Mind, Change Your World**

Aneri Kakadiya  
6CE1

We often believe we are looking out a window at the world, observing it as it truly is. In reality, we are standing in front of a mirror. What we see outside is deeply shaped by what we carry within. When we say, "We don't see things as they are; we see them as we are," it reminds us that perception is personal, filtered through experience and emotion.

There are invisible lenses through which we view everything around us. One of them is memory. Our past quietly influences our present, teaching us what to expect, what to fear, and what to trust. Another is mood. A cloudy afternoon can feel heavy and dull on a difficult day, yet calm and comforting when the heart is light. The same sky, the same rain, only the mindset has changed.

The world itself remains neutral, unchanged, simply existing. It is our mind that assigns meaning, color, and emotion to it. This is why transformation doesn't always require changing our surroundings. Sometimes, the real change begins when we pause and shift our perspective.

"We don't live in the world; we live in our heads. Make it a nice place to stay."

When we learn to understand our thoughts instead of being controlled by them, life feels lighter. A changed mind doesn't erase challenges; it changes how we meet them. And in that quiet shift of perspective, the world begins to feel different, even when nothing outside has changed at all.

## Introduction

Artificial Intelligence (AI) is widely regarded as one of the most transformative innovations of the modern era. From automation in industries to intelligent data analysis, AI has reshaped operational frameworks across sectors. As a final semester student currently undergoing internship training, I have observed how organizations increasingly rely on AI-driven systems to enhance efficiency and productivity. While AI offers significant advantages, it also presents complex ethical and economic challenges.

## Advantages of Artificial Intelligence

AI has significantly improved decision-making processes by analyzing vast amounts of data with speed and precision. In healthcare, AI assists in early diagnosis and predictive treatment planning. In business environments, AI-based analytics optimize supply chains, customer engagement, and strategic planning.

During my internship experience, digital tools powered by AI have demonstrated their ability to streamline workflow and reduce operational errors. Furthermore, AI has created emerging career opportunities in data science, cybersecurity, and machine learning. According to reports published by the World Economic Forum, AI and automation are expected to generate new job categories even as they transform traditional roles.

## Challenges and Ethical Concerns

Despite its advantages, AI raises concerns regarding job displacement, data privacy, and ethical accountability. Studies by McKinsey & Company highlight that while automation may replace certain repetitive tasks, reskilling and adaptability are crucial for workforce sustainability.

Additionally, AI systems rely heavily on data collection, which increases risks related to privacy breaches and misuse of information. Ethical dilemmas, such as biased algorithms and misinformation through deepfake technology, emphasize the need for strong regulatory frameworks.

## Conclusion

Artificial Intelligence cannot be classified strictly as a boon or a threat. Its impact depends on responsible implementation, ethical governance, and human oversight. As emerging professionals, students must equip themselves with technological competencies while upholding ethical standards. With balanced regulation and continuous learning, AI can serve as a powerful catalyst for progress.

## References

- World Economic Forum – Future of Jobs Report
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# The Pioneers of Knowledge: “Fathers” of Ancient Indian Science and Thought

Dr. Darshana J. Prajapati  
Associate Professor and Head  
ASH Department

Ancient India was not only a land of spiritual wisdom but also a cradle of scientific, philosophical, and cultural knowledge. Long before modern disciplines were formally named, Indian scholars had already laid strong foundations in medicine, surgery, mathematics, astronomy, linguistics, governance, and the arts. Many of these pioneers are rightly regarded as the “fathers” of their respective fields. Their contributions continue to influence contemporary knowledge systems across the world.

One of the most celebrated figures in ancient Indian science is Acharya Sushruta, widely acknowledged as the Father of Surgery and Plastic Surgery. His seminal work, the Sushruta Samhita, describes complex surgical procedures, including rhinoplasty, cataract surgery, and wound management. The text also details surgical instruments and ethical training for surgeons, demonstrating a remarkably advanced understanding of medical science for its time.

Complementing Sushruta’s surgical expertise was Acharya Charaka, known as the Father of Medicine (Ayurveda). The Charaka Samhita focuses on diagnosis, pharmacology, preventive healthcare, and holistic well-being. Charaka emphasized balance in body and mind, a concept that aligns closely with modern preventive and lifestyle medicine.

In the realm of mathematics and astronomy, Aryabhata stands as a towering figure. Often regarded as the Father of Indian Mathematics and Astronomy, he introduced concepts such as the approximation of pi, place-value notation, and explanations of solar and lunar eclipses based on scientific reasoning rather than mythology. His work marked a turning point in rational scientific inquiry.

Another significant contributor was Brahmagupta, considered the Father of Algebra in India. He systematically defined rules for operations involving zero and negative numbers, ideas that are fundamental to modern mathematics. Similarly, Kanad, the founder of the Vaisheshika school of philosophy, proposed an early atomic theory, earning him recognition as the Father of Atomic Thought in Ancient India.

Language and communication also flourished in ancient India. Panini, the Father of Sanskrit Grammar and Linguistics, authored the Ashtadhyayi, a highly structured and scientific grammar text. Its rule-based approach is so precise that it has drawn comparisons with modern computational linguistics.

Indian philosophy and psychology were enriched by thinkers like Kapila, the Father of Samkhya Philosophy, and Patanjali, the Father of Yoga. Patanjali's Yoga Sutras present a systematic approach to mental discipline, self-control, and inner harmony, concepts increasingly relevant in today's stress-filled world.

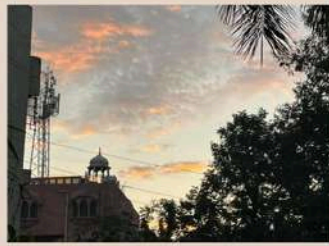
In governance and economics, Kautilya (Chanakya) emerged as the Father of Political Science and Economics in Ancient India. His treatise, the Arthashastra, provides detailed insights into administration, diplomacy, economic regulation, and statecraft, reflecting a sophisticated understanding of public policy and governance.

The arts and culture were equally advanced. Bharata Muni, through the Natyashastra, is regarded as the Father of Indian Drama, Dance, and Music Theory, offering a comprehensive framework for performance arts that continues to guide classical traditions.

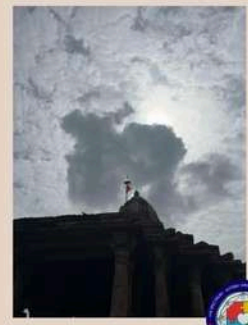
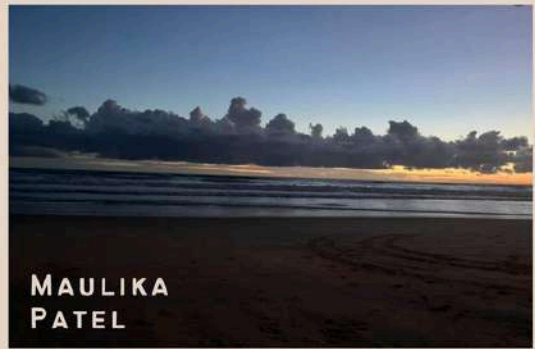
These luminaries of ancient India demonstrate that the subcontinent possessed a rich and systematic tradition of knowledge long before the modern era. Recognizing them as the "fathers" of various disciplines is not merely an act of historical pride, but a reminder that innovation and scientific thinking are deeply rooted in Indian civilization. For today's students and scholars, their legacy serves as both inspiration and responsibility—to preserve, reinterpret, and advance knowledge for the future.

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Principal, MBIT



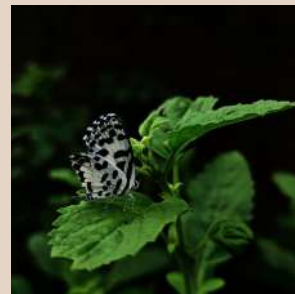
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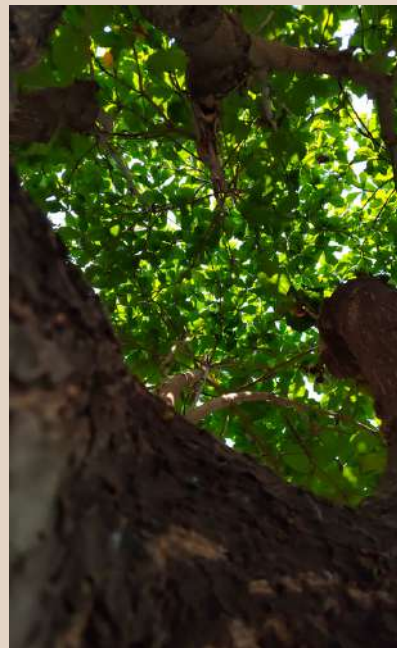
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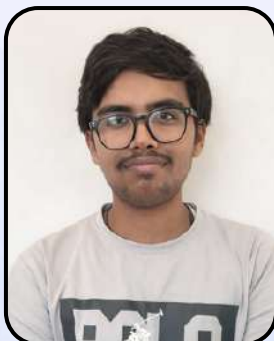
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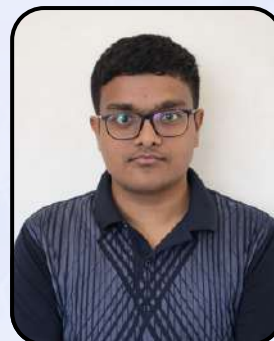
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[info@mbit.edu.in](mailto:info@mbit.edu.in)