

Engineering Insights

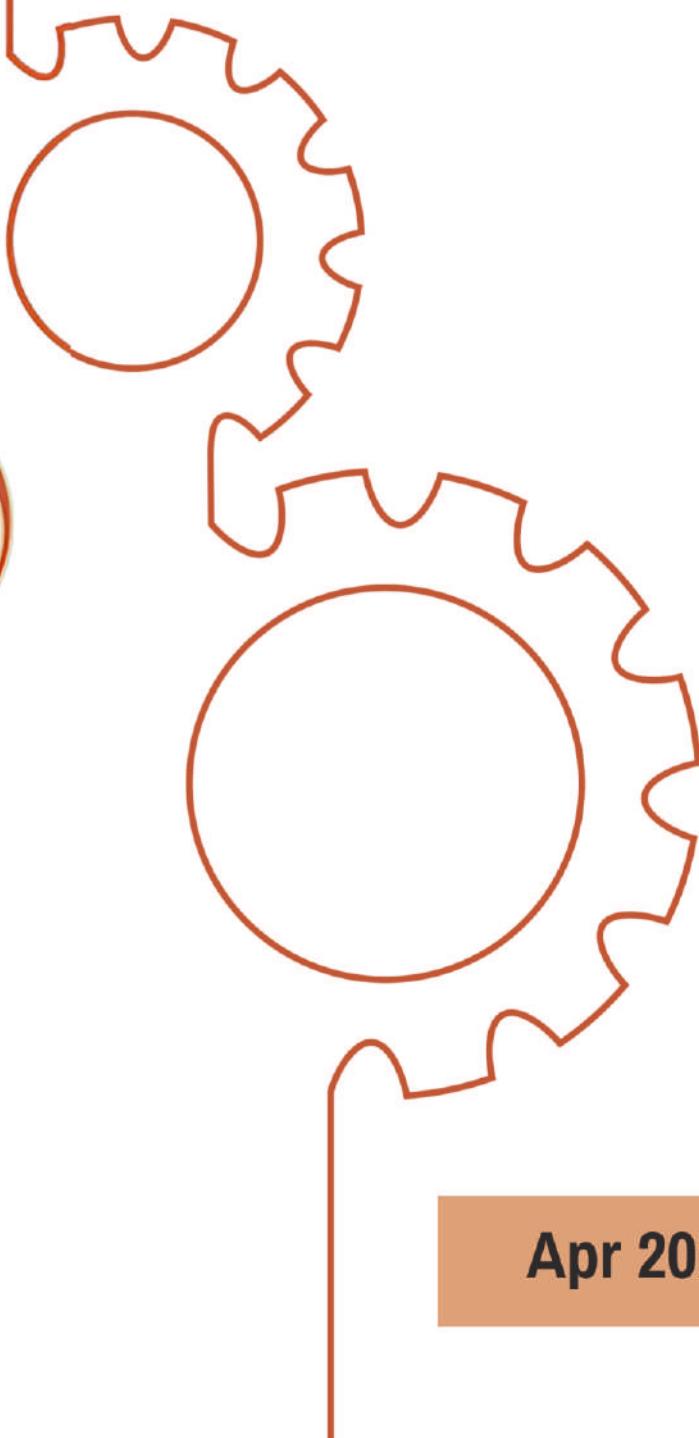
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EXCELLENCE
GOVT. OF GUJARAT



CHANDUBHAI S. PATEL INSTITUTE OF TECHNOLOGY

QUARTERLY NEWSLETTER



Apr 2025 - Jun 2025





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LEADERSHIP MESSAGES



Message from Dean's Desk

I am pleased to share some of the exciting developments at the Chandubhai S. Patel Institute of Technology (CSPIT) in the recent past in our newsletter "**ENGINEERING INSIGHTS**".

The newsletter will focus on the inside activities, viz. academics, achievement of students and staff members as well as innovation occurring in the departments. In the era of engineering and technology, this newsletter will motivate the staff members and students on sharing their creativity and new ideas with the world and will help in their overall development.

As the saying goes by "**Coming together is a beginning, keeping together is progress and working together is success**". We hope that the readers find the issue informative and useful. I once again congratulate everyone for this issue of newsletter and wish the CSPIT a grand success.

Dr. Vijay Chaudhary
Dean, FTE

LEADERSHIP MESSAGES

Message from Principal's Desk

I am delighted to present the third issue of "ENGINEERING INSIGHTS", the quarterly newsletter of Chandubhai S. Patel Institute of Technology (CSPIT). This edition continues to showcase the vibrant activities, innovative initiatives, and remarkable achievements of our students and faculty in recent months. With a supportive management, experienced, dedicated and committed teaching and non-teaching staff, excellent infrastructure and upgraded facilities, the institution has achieved outstanding success since its inception in year 2000. The institute now strives and aspires to be a Centre of Excellence.

We are grateful to our Honourable Provost, Respected Registrar, distinguished Management members, Dean and Head of Departments for their constant support and encouragement. I express my sincere and heartfelt thanks to all the stakeholders staff members, students and parents who have co-operated and contributed towards the realization of our vision, mission and dreams. Let us march wholeheartedly in the journey towards actualization of our objectives and goals.

I would like to launch this issue with a quote "The obstacles of the past can become the gateways to new beginnings, even a loss provides the polished direction of winning".

Dr. Trushit Upadhyaya
Principal, CSPIT

SPOTLIGHT ON MILESTONES

Team CSPIT @ CHARUSAT Education Expo 2025



CHARUSAT Education Expo 2025 showcased CSPIT's vibrant academic offerings across engineering branches, including Computer Science & Engineering (CSE), Computer Engineering (CE), Information Technology (IT), Civil Engineering (CL), Mechanical Engineering (ME), Electrical Engineering (EE), Electronics & Communication Engineering (EC), and Artificial Intelligence & Machine Learning (AI & ML), alongside specialized M.Tech streams - Structural, Thermal, Computer Engineering, and Advanced Manufacturing Technology and Ph.D. programs. Visitors explored detailed program insights, eligibility requirements, intake capacities, and fee structures. Student innovations from i-Create and tech clubs captivated attendees through live demonstrations. Faculty provided hands-on guidance, while counselling sessions and campus tours helped students and parents make informed choices, blending academic excellence with industry relevance.



Blueprints of the Future: Batch 2021 Bids Adieu



BATCH OF
2021





EVENTS AND ACHIEVEMENTS

Expert Talk on "Electromagnetics at the Core: Enabling Cellular, Connectivity, and RFFE"

The screenshot shows a video conference interface. On the left, a slide titled "Electromagnetics at the Core: Enabling Cellular, Connectivity, and RFFE" is displayed. Below the title, it says "Speaker: Maulin Bhagat" and "Designation: Electromagnetic Design Manager @ Qualcomm". On the right, a participant list is shown with 81 contributors. The list includes names like Poonam Th... (You), 23EC001 KRISHIBE..., 23EC007 MAN BHI..., 23EC008 AARYAN..., 23EC009 KRISHNA..., and 23EC011 JAY BUTANI. There are also entries for "Maulin Bhagat" and "Kanwar Pre...". A search bar at the top right says "Search for people".

V. T. Patel Department of Electronics & Communication Engineering, CSPIT, CHARUSAT organized an expert talk titled "Electromagnetics at the Core: Enabling Cellular, Connectivity, and RFFE" on March 21, 2025, delivered by Mr. Maulin Bhagat, Electromagnetic Engineering Manager at Qualcomm India Pvt. Ltd, Bengaluru. Attended by 108 students, the 90 minute session explored the pivotal role of RF and electromagnetics in the electronics industry, with a focus on cellular communication, RF packaging, and Radio Frequency Front-End (RFFE) design. Mr. Bhagat highlighted the synergy between fundamental electromagnetic theory and advanced applications, offering insights into mobile technologies and emerging innovations. The session provided students with a valuable industry perspective on how core engineering principles are driving modern wireless connectivity and hardware advancements.

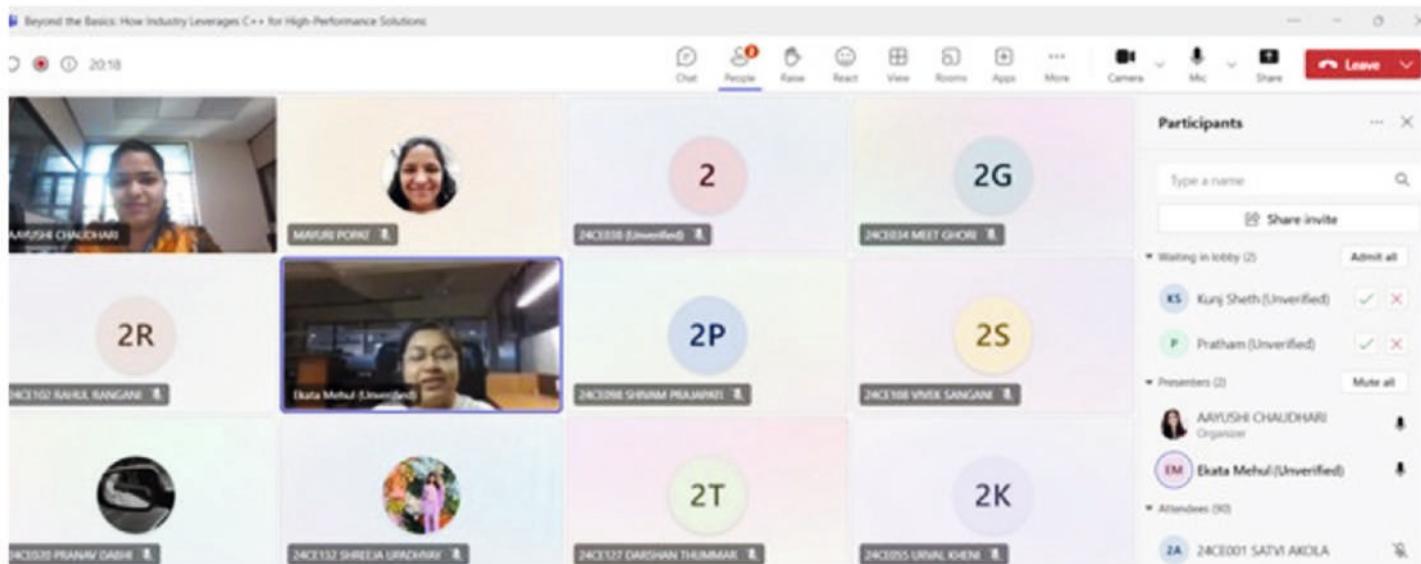
Expert Talk on "Crafting Impactful Research Papers and Navigating Journal Selection"



On April 4, 2025, the Department of Computer Science & Engineering successfully organized an expert talk on "Crafting Impactful Research Papers and Navigating Journal Selection". The session was delivered by Mr. Rutvij Javeri, Assistant Professor at PDEU, Gandhinagar. The primary objective of this expert talk was to equip participants with essential skills and insights required to write high-quality, impactful research papers and to make informed decisions when selecting appropriate journals for publication. The session aims to enhance participants' understanding of research structuring, clarity in academic writing, identifying suitable publication venues, and avoiding predatory journals. Through practical guidance and real-world examples, the talk will empower researchers, especially early-career scholars, to increase the visibility and credibility of their scientific contributions.

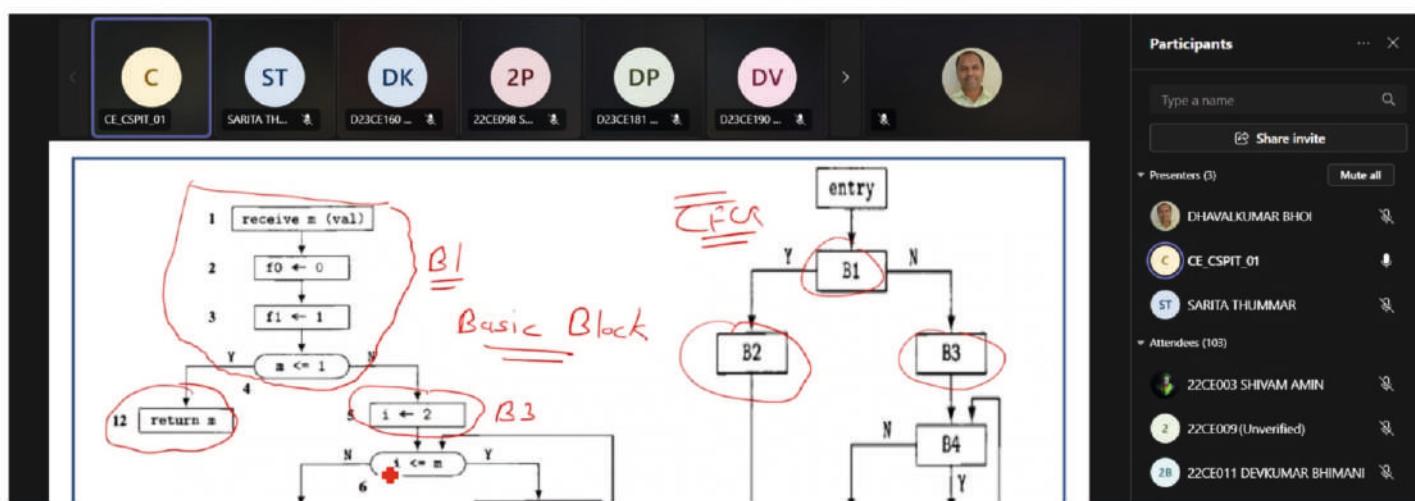


Expert Talk on "Beyond the Basics: How Industry Leverages C++ for High Performance Solutions"



U & P U. Patel Department of Computer Engineering successfully conducted an expert talk titled "Beyond the basics: How Industry Leverages C++ for High Performance Solutions" on March 29, 2025. The session was delivered by Dr. Ekta Mehul, CEO of Orena Solution, Ahmedabad, and attracted enthusiastic participation of 120 students of 2nd semester. Dr. Ekta shared valuable industry insights on the advanced applications of C++ in developing high-performance software systems. The talk covered key aspects such as memory management, multithreading, and real-time computing, demonstrating how C++ remains vital in performance-critical domains. It was an enriching session that bridged academic concepts with real-world industry practices.

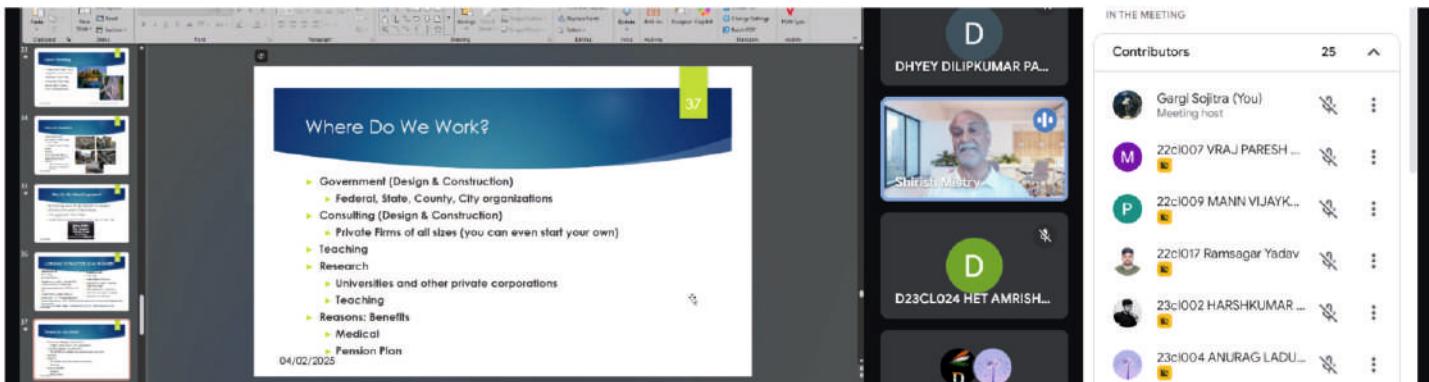
Expert Talk on "Code Optimization"



U & P U. Patel Department of Computer Engineering successfully organized an expert talk on "Code Optimization" on March 20, 2025 for 6th semester students. The session was conducted by Dr. Malay Bhatt, Professor at Sankalchand Patel University, Visnagar, who brought in-depth expertise on writing efficient and optimized code. Dr. Bhatt covered key concepts such as performance tuning, algorithm efficiency, and best coding practices used in industry. The interactive session provided students with practical insights into improving software performance and developing high-quality applications. It was a valuable learning experience bridging academic knowledge with real-world programming techniques.



Expert Talk on "Career in Civil & Structural Engineering"



M. S. Patel Department of Civil Engineering had organized an expert talk on "Career in Civil & Structural Engineering" under the aegis of ICI Students Chapter and IAStructE Students Chapter on April 4, 2025. The lecture was conducted by Mr. Shirish Mistry, Assistant Division Manager, Structural Engineering Division, Bureau of Engineering, City of Los Angeles. A total of 24 participants attended the expert lecture. Mr. Shirish shared the details of his journey of working for various projects like construction of residential complexes, commercial buildings, Municipal facilities, Bridges and Water work projects. He also talked in detail about his experience in providing part time service to Consumer Affairs for California Structural Examination writing, developing solutions and leading teams for consistency in evaluating future structural engineers. This gave students an insight into how to prepare for such exams. The ease with which the speaker explained the topic made a lasting impression on the participants.

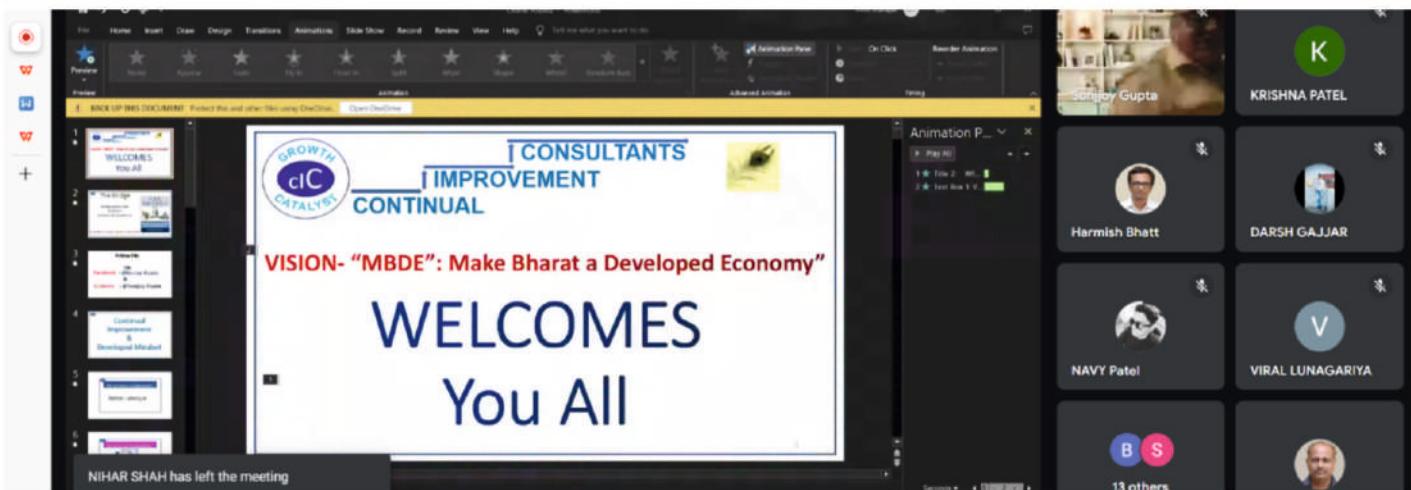
Expert Talk on "C++ Programming: Building Strong Foundations in Coding"



The Department of Artificial Intelligence and Machine Learning successfully organized an expert talk on "C++ Programming: Building Strong Foundations in Coding" on April 11, 2025. The session was conducted by Dr. Jignesh Patoliya, Senior Design Verification Engineer at elnfochips, Ahmedabad, who provided valuable insights into the fundamentals and advanced concepts of C++ programming. With a strong focus on logic building, object-oriented principles, and coding best practices, the session proved highly beneficial for budding programmers. A total of 54 students actively participated and gained a clearer understanding of how C++ forms the base for mastering other programming languages. The talk encouraged students to strengthen their coding proficiency for future technical challenges.



Expert Talk on "Contemporary Tools in Industrial Engineering"



CHAMOS Matrusanatha Department of Mechanical Engineering organised an expert talk on "Contemporary Tools in Industrial Engineering" for undergraduate students and faculty members on April 12, 2025. The session was chaired by Mr. Sunjoy Gupta, a seasoned professional from Yashraje Autocom Pvt. Ltd., Sanaswadi, Pune. His insights drew from extensive industry experience, enriching the session with practical knowledge and current trends. The primary objective of the lecture was to provide exposure to contemporary industrial tools and their applicability in today's engineering landscape. Mr. Gupta highlighted how these tools are aligned with the 'Make in Bharat' initiative, emphasizing the growing importance of smart technologies, lean practices, and data-driven decision-making in manufacturing and production environments. The session concluded successfully, bridging the gap between academic learning and industry expectations. It effectively addressed queries related to the current demands of the mechanical engineering sector, offering valuable direction for aspiring engineers.

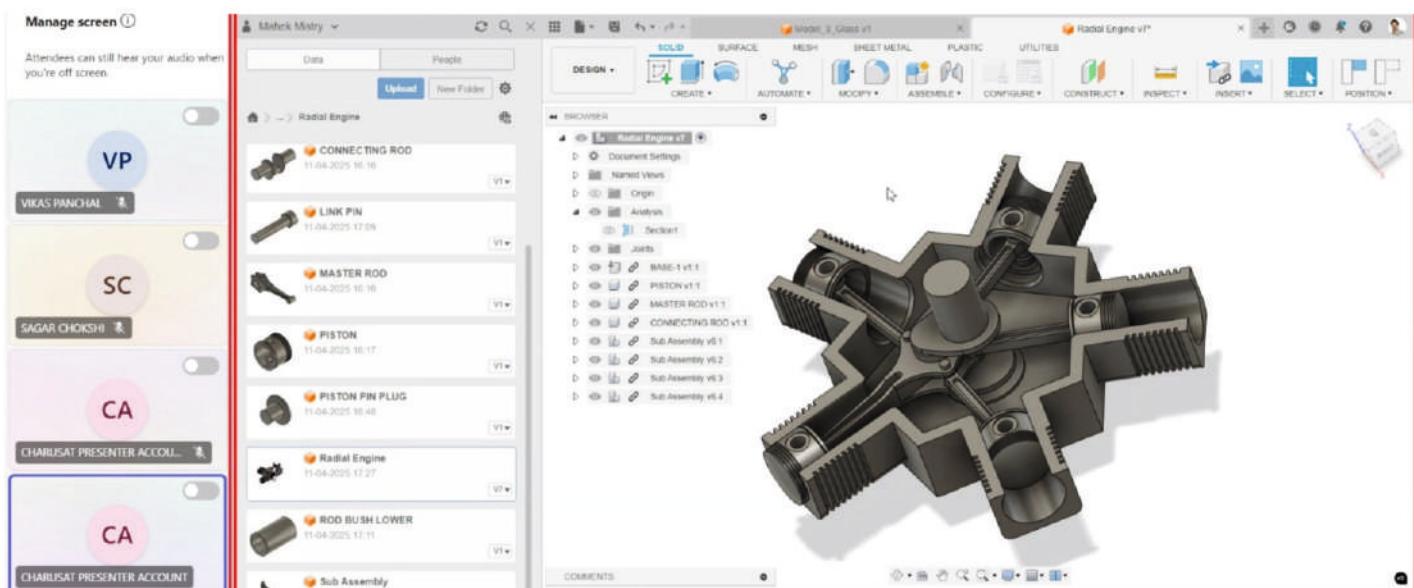
Workshop on "Cable Testing: Exploring Innovations and Best Practices"



M & V Patel Department of Electrical Engineering hosted a workshop on "Cable Testing: Exploring Innovations and Best Practices" on April 5, 2025, by Dr. Mihir Bhatt, Assistant Professor, Electrical Engineering Department (an expert in Cables & Wire testing). The workshop was organized for the Diploma in Electrical Engineering students of Government Polytechnic, Kheda. The sessions covered the fundamentals of cables and wires, need of cable testing and various Indian standards followed to ensure the quality of the cable insulation. The participants explored the current trends and the best practices followed by the cable industries. They also gained the knowledge regarding the quality assurance tests conducted on the cable insulation as per the Indian standards. The workshop concluded with the discussions on the career opportunities to work in the cables and wire manufacturing industries.

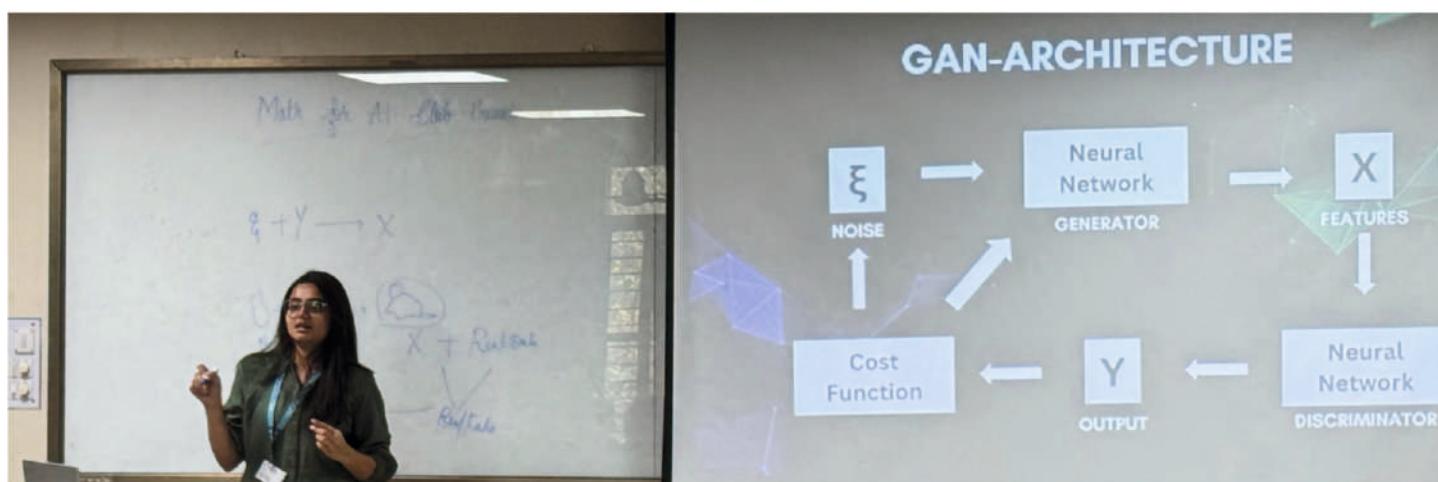


Workshop on "CAD Modeling & Drafting"



CHAMOS Matrusanstha Department of Mechanical Engineering organized a workshop on "CAD Modeling & Drafting" on April 12, 2025. The sessions of workshop were conducted by Mr. Naimesh Shethiya, Managing Director, Sopan Institute of Engineering & Design and Founder & Director, Jenik Engineering Services, Ahmedabad and Dr. Punit Patel, Assistant Professor, Department of Mechanical Engineering. 509 participants from the Second Semester of B.Tech. CE/IT/CSE/AIML/EC participated in the workshop. The sessions explored techniques of how to make modelling and drafting for engineering components using CAD software such as Fusion 360 & SolidWorks. It also helped participants discover how to make part and assembly drawings for various engineering objects. Moreover, it explored the concept of rendering and animation concepts to demonstrate the object.

Math for AI club activity: "Math Magic Behind Generative Adversarial Networks (GANs)"



Department of Artificial Intelligence and Machine Learning organized a Math for AI Club activity titled "Math Magic Behind Generative Adversarial Networks (GANs)" on March 21, 2025. The session introduced students to the mathematical foundations of Generative Adversarial Networks, including key concepts such as probability, optimization, and neural networks, by Pooja Mehta, a senior student. With active participation from 70 students, the event sparked interest in the math behind AI models and encouraged deeper learning in the domain of generative models.



"iChip-2025": Hackathon on Verilog FPGA



V. T. Patel Department of Electronics & Communication Engineering, CSPIT, CHARUSAT organized a Hackathon titled "iChip-2025": Hackathon on Verilog FPGA on March 29, 2025 under the Semiconductor VLSI Vision-An Industry Connect Series. The event, conducted by Mr. Kishan Prajapati, Principal Engineer at Analog Devices, witnessed enthusiastic participation from 33 students. Designed to enhance hands-on proficiency in Verilog coding and FPGA implementation, the hackathon was structured in two competitive rounds. Round 1, "The Verilog Sprint," tested participants on identifying and fixing errors in Verilog code under time constraints. Round 2, "The Real-Time Coding Challenge," focused on solving FPGA design problems with an emphasis on coding accuracy, optimization, and hardware resource use.

"Coder's Arcade 2.0" : Coding Contest under CP Squad club



K. D. Patel Department of Information Technology, CSPIT, CHARUSAT, in collaboration with the CP Squad Club, organized "Coder's Arcade 2.0", a two-day university-level coding competition held on April 22-23, 2025. The event aimed to enhance students' problem-solving abilities, logical thinking, and teamwork through engaging coding challenges. With over 300 participants forming 100+ teams, the competition featured three exciting rounds. Day 1 hosted Round 1: Debug Dash on HackerRank, followed by Round 2: Logic Sprint, a creative code-unlocking challenge. On Day 2, the top 15 teams competed in Round 3: Code Relay, testing logic and coordination across labs. The event concluded with a felicitation ceremony and ₹24,000 in prizes.



Fluid Mechanics Mini Project Exhibition-2025



CHAMOS Matrusanstha Department of Mechanical Engineering successfully organized a Fluid Mechanics Mini Project Exhibition-2025 on April 3, 2025, showcasing the innovative working models developed by Second-Year Mechanical Engineering students. The event centered around key themes from the Fluid Mechanics curriculum, including laws and principles, fluid properties, and applications of fluid flow. Students were tasked with creating working models based on the theoretical concepts they had studied in class. This hands-on challenge encouraged them to dive deeper into the subject matter, exploring various real-life applications and expanding their understanding of fluid mechanics. The exhibition attracted enthusiastic participation not only from Mechanical Engineering students but also from faculty members and students of other departments, who visited the displays and engaged with the participants.

Workshop on “DevOps 101: From Zero to Deployment”



U & P U. Patel Department of Computer Engineering organized a workshop on “DevOps 101: From Zero to Deployment” on April 2, 2025. Mr. Binakin Patel, Technical Lead in AWS DevOps, Elecromech has introduced foundational concepts and practical aspects of DevOps to 48 students from 6th semester. The workshop provided participants with hands-on experience in areas such as version control (Git), continuous integration/continuous deployment (CI/CD), containerization (Docker), and cloud deployment techniques. Through guided sessions and live demonstrations, students were able to gain a clear understanding of the software development lifecycle from coding to deployment. The workshop served as a valuable platform for students to explore modern development workflows, industry-relevant tools, and best practices that are essential in today's fast-paced industrial environments.



Workshop on "Intellectual Property Rights, Patent Drafting and Filing"



Chandubhai S. Patel Institute of Technology (CSPIT), CHARUSAT successfully organized a comprehensive workshop titled "Intellectual Property Rights, Patent Drafting and Filing" on June 12, 13, and 17, 2025, CAD Lab, CSPIT. The workshop aimed to promote awareness and enhance practical skills in the field of intellectual property, with a particular emphasis on patents. Dr. Prachi Pandey, Professor and SSIP Coordinator, Deputy Director-Centre of Startups & Entrepreneurship at Drs. Kiran & Pallavi Patel Global University (KPGU), Vadodara, served as the expert resource person. The sessions covered various aspects of IPR including types of IP, the Indian Patent Act, patentability criteria, and the process of drafting and filing patents. Practical assignments such as patent claim drafting and exercises related to patent drawings were also part of the workshop. Participants gained insights into Sections 2 and 3A-3K of the Indian Patent Act, 1970, the filing of Forms 1, 2, and 27, and the importance of provisional applications. The workshop concluded with discussions on how to respond to examination reports and maintain granted patents, offering a well-rounded understanding of the legal and procedural landscape of patent protection in India and beyond.

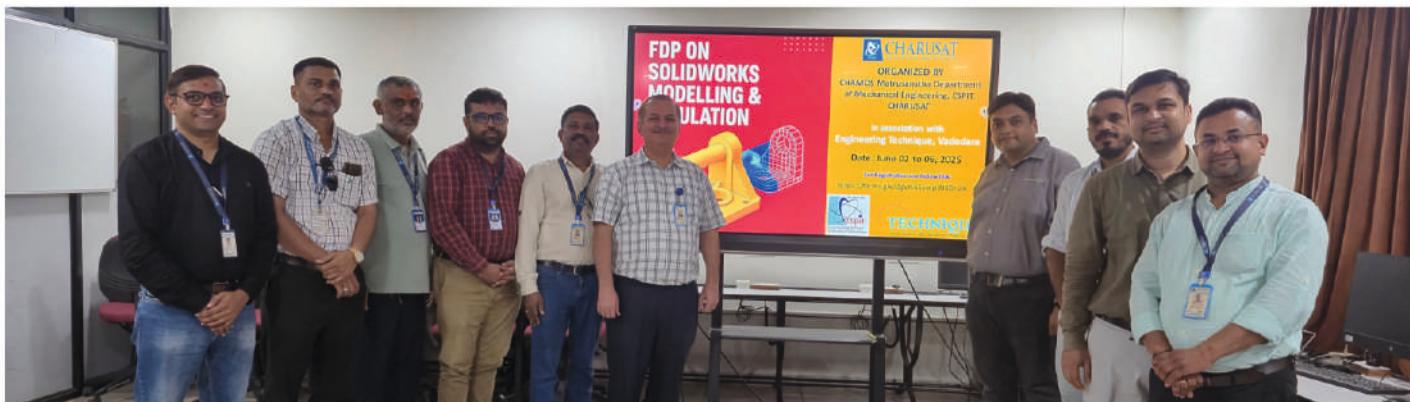
Faculty Development Program on "DevOps"



Departments of CE, IT, CSE, and AIML at CSPIT collaboratively organized a Faculty Development Program (FDP) on "DevOps" on June 13 and 16, 2025. The program was aimed at enhancing faculty knowledge, sharpening technical skills, and aligning academic expertise with current industry best practices in the field of DevOps. Mr. Binakin Patel, Technical Lead in AWS DevOps, Elecromech served as the expert resource person and conducted hands-on training sessions for over 20 faculty members across the four participating departments. The training focused on practical implementation, tools, and workflows integral to modern DevOps practices, enabling faculty members to integrate these insights into their teaching and research.



Faculty Development Program on “SOLIDWORKS Modelling & Simulation”



In a continued effort to align academic excellence with the evolving needs of the industry, CHARUSAT remains committed to preparing students for real-world challenges. Recognizing the importance of staying current with technological advancements, the university also ensures its faculty members continuously upgrade their technical knowledge. As part of this initiative, CHAMOS Matrusanstha Department of Mechanical Engineering, organized a Faculty Development Program (FDP) on “SOLIDWORKS Modelling & Simulation” from June 02-06, 2025, in collaboration with Engineering Technique, Vadodara. The sessions were led by experts including Mr. Nilesh Wakode, Industry Consultant Manager at Dassault Systèmes India, and three professionals from Engineering Technique-Mr. Ashutosh Rajput (Design Expert-Technical Lead), Mr. Dhruval Parmar (Application Engineer-CAD), and Mr. Gaurav Patel (Application Engineer-Simulation). The week-long FDP aimed to enhance the technical proficiency of faculty members in advanced 3D modelling and simulation techniques using SOLIDWORKS. The program included hands-on sessions, demonstrations, and case studies tailored to bridge the gap between academic instruction and industrial practices.

Faculty Development Program on “Intellectual Property Rights and Patent Filing”



The Department of Artificial Intelligence and Machine Learning organized a Faculty Development Program (FDP) on “Intellectual Property Rights and Patent Filing” on June 9-10, 2025. The sessions were conducted by Mr. Padmin Buch (Managing Director of Gujarat Industrial & Technical Consultancy Organisation (GITCO), Ahmedabad) and Mr. Amitkumar Patel (Managing Partner, PATectual IP Law Services LLP, Ahmedabad), experts in the field of intellectual property and innovation management. The FDP aimed to enhance faculty awareness on the importance of IPR, legal frameworks, and the process of patent filing. A total of 26 participants actively engaged in the interactive sessions, gaining valuable insights into protecting and commercializing innovative ideas. The program also emphasized the role of IPR in academic research and entrepreneurship.



Student Spotlight: Rising Stars

Odoo X Gujarat Vidyapith '25 (March 22-23, 2025)

Students from the Artificial Intelligence and Machine Learning, & Information Technology branches showcased exceptional innovation by securing the **Winner Position at Odoo X Gujarat Vidyapith competition**. The team, comprising Krushna Parmar (22AIMAL028), Ishwar Goswami (22DIT016), Milan Bavishi (22DIT003), and Krashna Patel (22DIT050), impressed the judges with their outstanding technical prowess and collaborative spirit. Their achievement was recognized with a **₹75,000 cash prize**, celebrating their significant contribution to the field of technology and enterprise solutions.



Best Paper Presentation Award

Rahul Chafekar from the Department of Mechanical Engineering has received the **Best Paper Presentation Award at the International Conference ICMET, 2025** for his paper titled "Numerical Investigation of the Effect of Surface Roughness, Balancing Hole Diameter, and Number of Balancing Holes on the Efficiency and Performance of the Metallic Volute Pump."

NPTEL Stars: "Celebrating Student Success"





NPTEL Stars: "Celebrating Student Success"

Monark Talpada
[23CS084]
Deep Learning

Dhairyka Kanabar
[23CS032]
Design and Analysis of Algorithm

Manav Vashi
[22CE137]
Deep Learning

Shubham Bharti Goswami
[22IT034]
Blockchain and its Applications

Patel Het
[23AIML051]
Data Base Management System

Aarya Shah
[23AIML064]
Data Base Management System

Hival Patel
22CE089
Blockchain and Its Applications

Arya Kayastha
23CE055
Database Management System

Jay Khetani
23CE057
Database Management System

Deep Patel
23CE020
Design and Analysis of Algorithms

Mubin Kaladiya
23CE052
Python for Data Science

Kiran Baraiya
22IT060
Cryptography and Network Security



NPTEL Stars: "Celebrating Student Success"



Yash Davda
23AIMAL012
Database
Management System



Kashak Modi
23AIMAL037
Database
Management System



Puja Rachchh
23AIMAL057
Database
Management System



Kevin Mayani
23IT045
Design and Analysis of
Algorithms



Koshiya Yakshit
23IT047
Design and Analysis of
Algorithms



Mulani Rishikumar
23IT063
Design and Analysis of
Algorithms



Patel Megh
23CS069
Database
Management System



Lokadiya Dhruv
23CS041
Database
Management System



Yash Nasit
23CS043
Deep Learning



Zala Karan
22CS095
Deep Learning



Jayrajsinh Bhatti
24CE014
Programming in
Java



Diya Gangurde
23EC031
Digital Design
with Verilog



National Ranks, Global Dreams - Proud of Our GATE-2025 Champions!



Celebrating Excellence: Faculties Achievements



Best Paper Presentation Award

Prof. Viral Panara received the **Best Paper Presentation Award at the International Conference ICSEM 2025** for his paper titled "Investigation on Metal Foam Made via Powder Metallurgy Method Using Sugar Cubes as a Space Holder."

Patent Granted from CE Department

Dr. Ritesh Patel, along with Patel Hit, Suthar Pratik, Mistry Henil, Khunt Padmanabh, and Shah Ayushyamaan from the Department of Computer Engineering, were granted a patent for their invention titled "**System and Method for Demonstration.**" Grant Date: 18/04/2025.



Patent Granted from EC Department

Dr. Upesh Patel and Dr. Brijesh Kundaliya from the Department of Electronics and Communication Engineering were granted a patent for their invention titled "**An IoT-Based 5G System Using Light Scattering Technique for Monitoring Ambient Air Quality**". Grant Date: 17/03/2025.

Editor of Distinction Awards 2025 - Springer Nature

Dr. Killol V. Pandya received the **Springer Nature Author Service Award** as part of the esteemed Editor of Distinction Awards 2025 presented by Springer Nature. This accolade recognizes his exceptional contributions and dedicated service in enhancing the quality and dissemination of scholarly research.





Celebrating Excellence: Faculties Achievements at CSPIT in NPTEL Exam



Dr. Nikita Bhatt has secured a place in the **Top 1%** of learners in the NPTEL course **Design and Analysis of Algorithms**.

Dr. Sagar Chokshi has secured the Topper's position with an Elite+Gold certification in the SWAYAM-NPTEL course **Engineering/Architectural Graphics - Part I - Orthographic Projection**.



Dr. Kanwar Preet Kaur has secured a place in the **Top 1%** of learners in the NPTEL course **Digital Electronic Circuits**.



Prof. Vipul Vyas has secured a place in the **Top 1%** of learners in the NPTEL course **Advanced Topics in Science and Technology of Concrete**.



Prof. Trusha Patel has achieved a remarkable milestone by securing a **Top 2%** rank in the NPTEL course **Compiler Design**.



Prof. Dhara M. Patel has secured a place in the **Top 5%** of learners in the NPTEL course **CMOS Digital VLSI Design**.





Celebrating Excellence: Faculties Achievements at CSPIT in NPTEL Exam



Dr. Brijesh Kundaliya has secured a place in the **Top 5%** of learners in the NPTEL course **Real Time Operating System**.

Prof.Vaishali Koria has secured a prestigious **Top 5%** rank in the NPTEL course **Fundamental Algorithm: Design and Analysis**.



Prof.Krunal Maheriya has earned a place in the **Top 5%** of learners in the NPTEL course **Deep Learning**.

Dr. Jigar Sarda has secured a **Top 5%** rank in the NPTEL course **Deep Learning**.



Prof.Hemant Yadav has achieved a **Top 5%** position in the NPTEL course **Deep Learning**.

Prof. Madhav Ajwaliya earned a **Top 5%** ranking in the NPTEL course **Blockchain and Its Applications**.

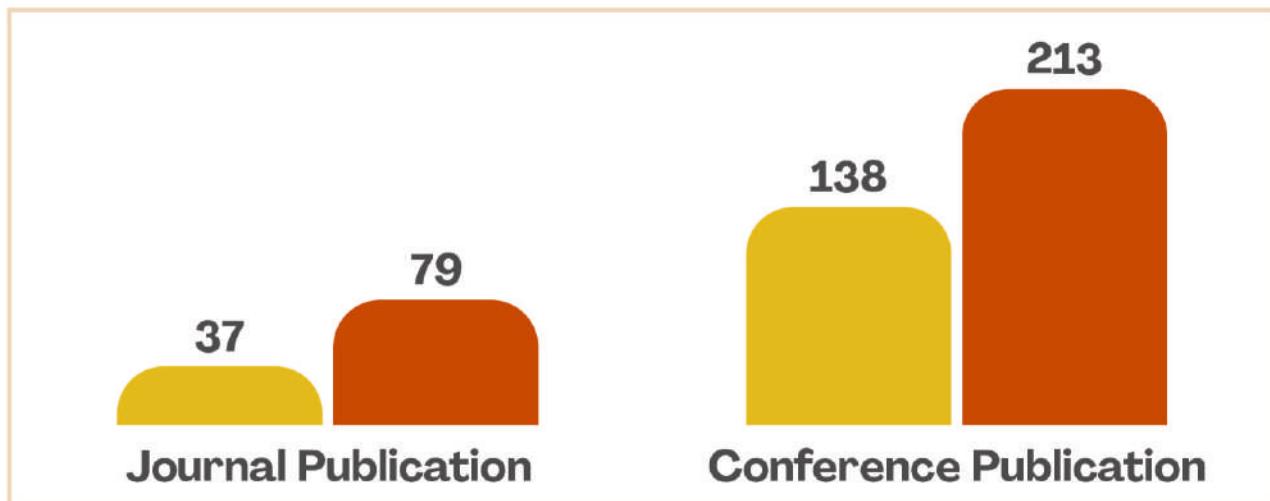


Prof. Pinal Patel has secured the **Topper's position** with an Elite+Silver certification in the SWAYAM-NPTEL course **Design of Connections in Steel Structures**.



RESEARCH AND INNOVATION

Academic Publications Analysis: Indexed Achievements in Research



● Apr'25 - Jun'25 ● Jul'24 - Jun'25

The data highlights significant progress in research publications across journal and conference platforms, emphasizing the institution's commitment to academic & research excellence.

37 Journal publications were carried out between Apr'25 and Jun'25, while a total of 79 have been recorded for the academic year 2024-25 so far. This indicates consistent progress toward achieving a higher output by the end of the academic year.

Similarly, conference publications have shown notable growth. During the period from Apr'25 to Jun'25, 138 were carried out, and a total of 213 conference publications have been recorded for the academic year 2024-25 to date. The trend suggests significant progress, with more outputs anticipated as the year unfolds.

These publications, indexed in Scopus and Web of Science, underscore the institution's dynamic research ecosystem and the dedication of its scholars. The ongoing academic year shows promising trends, further solidifying the institution's global academic impact.



Paper Publication in High Impact Factor Journals (Selected)



Dr. Vijay R. Panchal published a paper titled "Optimizing Sustainable Blended Concrete Mixes Using Deep Learning and Multi-Objective Optimization" in *Scientific Reports*, a journal with a JCR Impact Factor of 3.8.

Dr. Nikita Bhatt published a paper titled "A Data-Centric Approach to Improve Performance of Deep Learning Models" in *Scientific Reports*, a journal with a JCR Impact Factor of 3.8.



Dr. Arpita P. Patel published a paper titled "Enhanced Isolation in Aperture Fed Dielectric Resonator MIMO Antennas for 5G Sub 6 GHz Applications" in *Scientific Reports*, a journal with a JCR Impact Factor of 3.8.

Prof. Dharmendrasinh V. Chauhan published a paper titled "Nation's Defense: A Comprehensive Review of Anti-Drone Systems and Strategies" in *IEEE Access*, a journal with a JCR Impact Factor of 3.4.



Dr. Vijay R. Panchal published a paper titled "Physics-Informed Neural Networks for Predicting Sediment Transport in Pressurized Pipe Flows" in *Environmental Earth Sciences*, a journal with a JCR Impact Factor of 2.8.



Paper Publication in High Impact Factor Journals (Selected)

Dr. Sagar B. Patel published a paper titled "Performance Analysis of Generalized Quadrature Spatial Modulation with Quasi-Orthogonal Space-Time Block Codes Under Nakagami m-Fading Channels" in Telecom, a journal with a JCR Impact Factor of 2.1.



Dr. Aayushi Chaudhari published a paper titled "DeViTC: Deep-Vision Transformer to Recognize Originality of Currency" in a JCR 2.0 impact factor journal.

Red Hat Certified Educators

redhat
CERTIFIED SYSTEM
ADMINISTRATOR



Prof. Hemang Thakar



Prof. Abhishek Patel



Prof. Rikita Chokshi



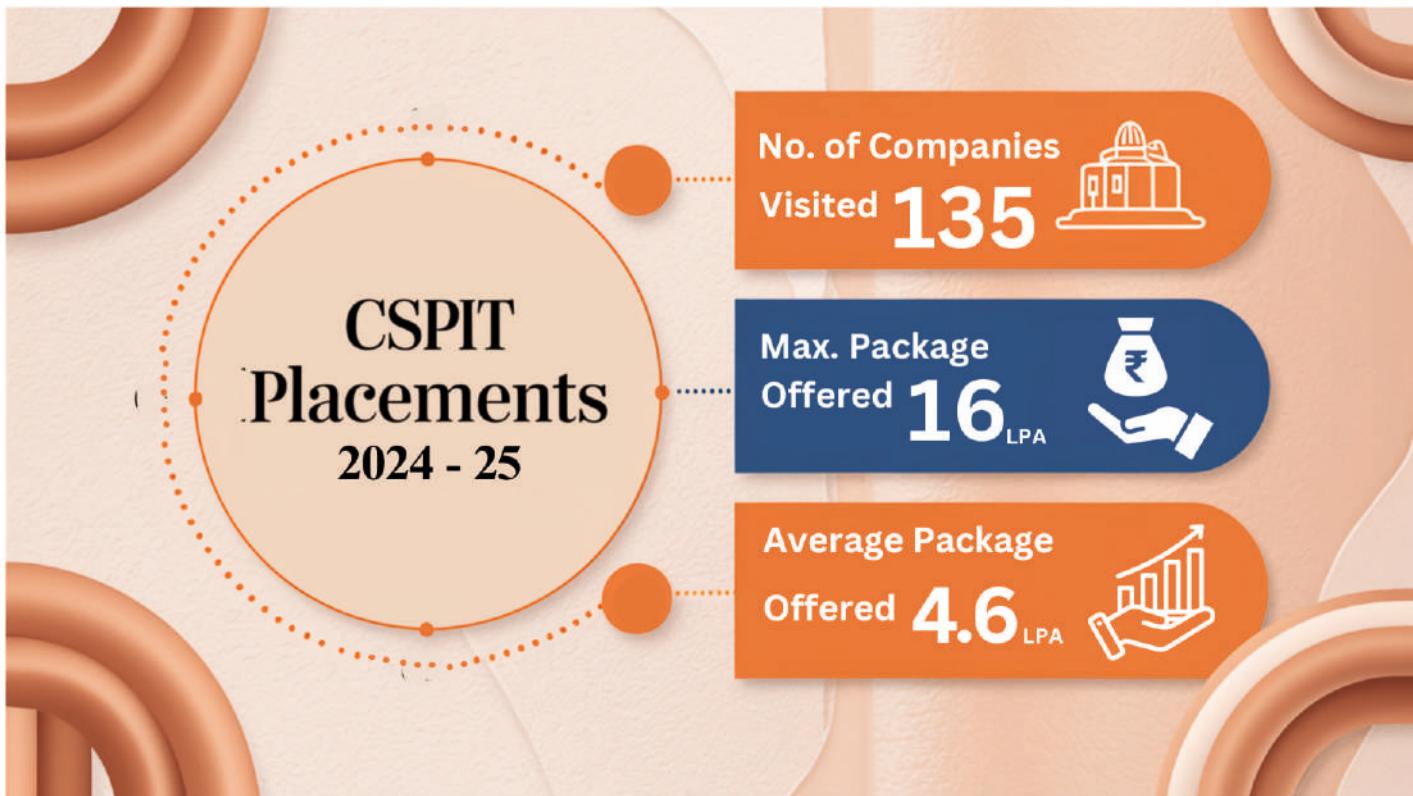
Prof. Sarita Thummar



Prof. Priyanka Patel



CARRIER & PLACEMENTS



Visiting Companies

Apr'25 - Jun'25

TCS

(TATA Consultancy Services)

Teachnock

Educational consultant

MICRON

Semiconductor manufacturing company

Odoo

Alembic

MG Motors

ABM systems

Svaapta IT-ally

DeltaX



INDUSTRY COLLABORATIONS

Student Industrial Tours and Visits

As an essential part of engineering education, CSPIT Organized industrial visits for students of all disciplines, as it provides practical exposure to real-world industrial processes, manufacturing techniques, and professional work environments.

ADANI INDUSTRIES



CHAMOS Matrusanstha Department of Mechanical Engineering has organized two day industry visit at various Adani Industries (Power, Solar, Wind, Wilmar, Port, SEZ) at Mundra, Kutchh, during April 4-5, 2025 under Project Udan scheme of Adani Foundation. Total 47 students of B. Tech. Mechanical Engineering 4th & 6th semester and M.Tech. Advanced Manufacturing Technology 2nd semester along with 4 staff members have participated in this visit. Adani Group is a diversified organisation in India comprising 10 publicly traded companies.



An industrial visit to Common Effluent Treatment Plant (CETP) Vatva, Ahmedabad was organized by M. S. Patel Department of Civil Engineering for the 2nd semester Post Graduate Diploma in Environmental Auditing, Monitoring and Technology (PGDEAMT) students on April 19, 2025. The main aim of this visit was to make students aware about the various physicochemical and biological processes for the treatment of industrial wastewater mainly from dye and dye intermediates.





Student Industrial Tours and Visits

iCreate, DEU Dholera



M. & V. Patel Department of Electrical Engineering organized an industrial visit to iCreate, Dholera, on April 1, 2025, for 45 students and 4 faculty members. The visit aimed to expose students to entrepreneurship, innovation, and startup incubation. The iCreate team welcomed the group, followed by expert sessions and a guided tour. Ms. Tejasree Shah introduced iCreate's mission, funding support, and startup programs. She highlighted boot camps, acceleration programs, and success stories of incubated startups. Students interacted actively, discussing startup challenges, funding, and government support. Dr. Raashid Saiyed delivered a session on ideation, business models, and risk management. Case studies and videos emphasized resilience, adaptability, and continuous learning. Students shared their ideas and received feedback on feasibility and market potential. The visit concluded with a lab tour showcasing projects in AI, IoT, EVs, and renewable energy.

MoU Renewal: GPCB and CHARUSAT for Environmental Education



The M. S. Patel Department of Civil Engineering has initiated an online program of Post Graduate Diploma in Environment Auditing, Monitoring and Technology (PGDEAMT). To support and facilitate the PGDEAMT program for overall capacity building and to improve environmental compliance in the State of Gujarat, Joint Declaration of Intent was signed between CHARUSAT University and Gujarat Pollution Control Board (GPCB) on June 5, 2023 at Ambaji, Palanpur. This Joint Declaration of Intent (JDI) was renewed by GPCB on May 30, 2025 with all the terms and conditions same as JDI signed on June 5, 2023. The duration of renewed JDI is from May 31, 2025 to May 31, 2028.

STUDENT SUPPORT AND DEVELOPMENT

Empowering Students Through Financial Assistance: UGSF/PGSF's Commitment to Excellence

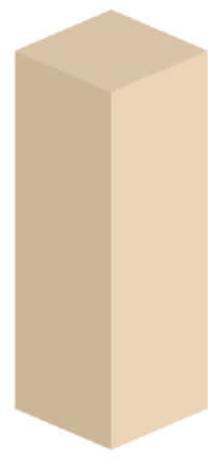
₹ 12,28,820

35 Students

₹ 1,71,000



Apr'25 -
Jun'25



Jul'24 -
Jun'25

Financial Support

The Undergraduate & Postgraduate Student Fellowship (UGSF & PGSF) provides financial support to help students pursue their academic goals, research projects, and skill development. This assistance allows students to focus on their studies without financial worries. By fostering an inclusive environment, UGSF & PGSF promotes innovation, critical thinking, and professional growth, helping students reach their full potential and contribute to a better future.

ExamEye: AI-driven Vigilance - iHUB Funded Project



The Department of Computer Engineering received a funded project titled "**ExamEye: AI-driven Vigilance**" under the iHUB initiative. The project is led by Dr. Mrugendra Rahevar as the Principal Investigator (PI), with student Co-PIs Jatin Mamtora (21CE067), Kirtan Matalia (21CE070), Nirmit Pandya (21CE085), and Om Modi (21CE073). **The project has a duration of six months and has been awarded a funding amount of ₹4,00,000.**

EXTRA-CURRICULAR ACTIVITIES

NSS Activity: Wings of Care – Bird Feeding & Water Stations



V. T. Patel Department of Electronics & Communication Engineering, in collaboration with the CHARUSAT NSS Unit, organized an environmental awareness activity titled "Wings of Care: Bird Feeding & Water Stations" on March 20, 2025 at the CHARUSAT Campus. The initiative, led by Student Coordinators Mr. Dhruv Rupapara and Ms. Diya Thakkar, aimed to support bird welfare during summer and promote environmental responsibility among students. A total of 35 student volunteers participated in installing over 60 eco-friendly bird feeders and water stations across key campus zones such as the Library, Sports Complex, Gardens, and Academic Blocks. Feeders were crafted using sustainable materials like wood, coconut shells, and clay bowls, and were filled with grains including millet, rice, and wheat. The event began with a briefing session, after which volunteers, divided into four groups, proceeded with installation at identified locations. A structured maintenance plan was also established to ensure long-term functionality, involving daily refilling by assigned volunteers. The activity not only provided immediate relief to birds but also fostered empathy and environmental awareness among students, reinforcing CHARUSAT's commitment to sustainability and community service.

CREATIVE MINDS | CONTRIBUTORS

● Dubariya Jaynish

● Laabhes Thallam

● Krishna Patel

● Kvisha Bhagat

● Ravil Patel

● Manush Desai



ENGINEERING

Insights

VISION

To become a leading institute for creation and dissemination of knowledge in the frontiers of technology.

MISSION

To prepare world-class technocrats and researchers and facilitate enhanced deployment of technology for betterment of lives.



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