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# NEWSLETTER'24
VOLUME 9 : Jan 2024 - Dec 2024

# DEPARTMENT OF INFORMATION TECHNOLOGY

📍 **Nr. Visat three roads, sabarmati-koba highway, Chandkheda, Ahmedabad-24**

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Dear All,

The VGEC Information Technology Department is delighted to present the 2024 edition of our newsletter, showcasing the latest achievements, milestones, and advancements within our department.

This year, we have taken a significant step forward by launching the Working Professional Bachelor of Engineering (BE) in Information Technology program. This initiative aims to provide industry professionals with the opportunity to upskill and stay ahead in the ever-evolving tech landscape.

Our students continue to make us proud with their remarkable performances in national and international competitions. They secured top positions in the Smart India Hackathon and various other prestigious hackathons, winning substantial prize money and gaining industry recognition for their innovative solutions. Congratulations to all the winners and their mentors for this outstanding accomplishment!

In our commitment to fostering excellence, we are further strengthening our Centre of Excellence to drive research, collaboration, and industry partnerships. This hub will serve as a catalyst for groundbreaking projects, equipping students with cutting-edge knowledge and hands-on experience.

Academic excellence remains at the heart of our department. Our students have once again delivered exceptional results in examinations, a testament to their dedication and the unwavering support of our faculty.

Beyond academics, we continue to host impactful events, including seminars, tech fests, placement drives, and research initiatives. Students actively participate in competitive coding on platforms like LeetCode, CodeChef, and HackerRank. Additionally, our strong emphasis on internship opportunities ensures that students gain invaluable real-world exposure, preparing them for dynamic careers in technology.

As we celebrate these achievements and embrace new challenges, let us continue to push the boundaries of innovation and excellence. Together, we will shape the future of technology.

Warm regards,
Prof. (Dr.) V. D. Patel
HOD Of Information Technology

## ▶ Vision

"The department aims to nurture students to be IT professionals who are innovative and technically competent to meet the advancements in industrial and societal needs."

## ▶ Mission

1. To produce technically competent and socially responsible graduates.
2. To develop well-equipped laboratories to gain practical exposure in IT practices.
3. To support research culture, consultancy work and enhancement of entrepreneurship skills.
4. To enhance industry linkage for good placements and real-world exposure.
5. To encourage, involve and support students for environmental and social wellbeing.

## ▶ Department Best Practices

1. Facilitate seminars, workshops, and expert-led sessions focusing on cutting-edge technologies such as IoT, Data Analytics, Big Data, and Machine Learning.
2. Organize expert sessions aimed at holistic student development to prepare them for industry demands.
3. Foster collaboration with industries for hands-on student projects.
4. Provide remedial sessions tailored to support struggling students.
5. Encourage faculty to undertake funded research projects, involving students in research-oriented activities.
6. Host pedagogy sessions led by faculty on the latest technological advancements.
7. In 2024, the IT department conducted 9 virtual lab workshops on Machine Learning via IIT Bombay's VLab platform, engaging 264 students in an interactive learning experience.

## ▶ Program Educational Objectives (PEOs)

1. The graduate will be a competent professional with high-level technical proficiency in the field of Information Technology to identify problems and develop innovative solutions to meet the industrial needs.
2. The graduate will exhibit professionalism, teamwork, leadership skills and lifelong learning.
3. The graduate will ethically apply their computing knowledge and skills considering societal, economic, and environmental factors.
4. The graduate will be intellectually competent to pursue higher education and conduct research-oriented activities.

## ▶ Program Specific Outcomes (PSOs)

1. Demonstrate proficiency in one of the emerging Technology like Data Science, Machine Learning, and Web/Mobile Application Development.
2. Demonstrate skills to design, develop and test software systems to provide solutions to real-world problems.

## ▶ Department Profile

| Name of the Department | Information Technology | Information Technology |
|---|---|---|
| Course | Bachelor Of Engineering | Master of Engineering |
| Year of Starting | 1999 | 2023 |
| 1st Year Approval by Council | 1999 742-1-5(GUJ)/EI/99,6/7/99 | 2023 |
| Year Wise Secnctioned Intake | 60 | 18 |
| NBA Accreditation Details | 2022-2025(File number: 20-43-2010-NBA : DT 22/12/2022) | NA |
| Approved by AICTE, New Delhi | Central/1-43664403029/2024/EOA dated 30/6/2024 | Central/1-43664403029/2024/EOA dated 30/6/2024 |
| Affiliated to Gujarat Technological University, Ahmedabad | GTU/Inst_Affi/017/2024-25 dated 7/6/2024 | GTU/Inst_Affi/017/2024-25 dated 7/6/2024 |

## ▶ Faculty Profile

| Faculty Name | Designation | Area of Interest |
|---|---|---|
| Prof. (Dr.) Vibha D Patel | Professor | High Performance Computing, Image Processing, AI/ML |
| Prof. Shailesh J Molia | Associate Professor | DataScience, Operating system Security and Design |
| Prof. Vallabh G Patel | Assistant Professor | Data Science & AI/ML, Pattern Recognition, Software Development |
| Prof. (Dr.) Dhaval J Varia | Assistant Professor | Wireless Sensor Network, IoT, Networking |
| Prof. Nikunj C Gamit | Assistant Professor | Natural Language Processing, Computer Vison, Software Engineering |
| Prof. (Dr.) Jashvant R Dave | Assistant Professor | Ad-hoc Network, Software Design/Development |
| Prof. Naimisha S Trivedi | Assistant Professor | Cloud Computing, Parallel and Distributed Computing, AI/ML |
| Prof. Jignesh H Vania | Assistant Professor | Computer Vision, IoT, Blockchain, Network Security |
| Prof. Chetna G Chand | Assistant Professor | AI/ML, Computer Vision, Data Mining |
| Prof. (Dr.) Dipak C Patel | Assistant Professor | Data Science, AI/ML, Algorithm analysis, Natural Language Processing |
| Prof. (Dr.) Om P Mehta | Assistant Professor | Wireless Sensor Network, IoT, AI/ML, Soft Computing |
| Prof. Manmitsinh C Zala | Assistant Professor | Cloud Computing, Parallel and Distributed Computing, AI/ML, IoT |

## ▶ Orientation 2024

### ● Orientation Program: A Path to Growth and Learning

The Orientation Programme was held on 27th June, 2024 in VGEC's Auditorium, followed by the Induction Programme, which took place from 28th June to 19th July, 2024. The Orientation and Induction Program was designed to help students transition smoothly into their academic journey while fostering personal and professional growth. Through interactive sessions, skill-building activities, and expert-led discussions, students were introduced to essential aspects of college life, institutional policies, and academic expectations. The program focused on equipping students with vital skills such as time management, communication, teamwork, and leadership, ensuring they were well-prepared to navigate both academic and extracurricular challenges. Engaging workshops and real-world insights from industry professionals provided valuable guidance, helping students set clear goals and aspirations for their future.



Beyond academics, the program emphasized holistic development, encouraging students to build confidence, resilience, and a growth mindset. Sessions on mental well-being, stress management, and personal development helped students adapt to new challenges while maintaining a healthy work-life balance. Additionally, interactive group activities fostered a sense of community, allowing students to connect with peers, faculty, and mentors. By the end of the program, students felt more prepared, motivated, and empowered to make the most of their academic experience, setting a strong foundation for success in their college journey and beyond.

### ● Sustainability and Wisdom: NCC Activity and Bhagavad Gita Insights

A special NCC-led activity focused on sustainability at E-block of VGEC campus, where students learned to create bags from newspapers and other reusable materials. This session highlighted the importance of environmental consciousness and resourcefulness. Additionally, a lecture by a Vedic Youth Club member introduced students to the teachings of the Bhagavad Gita, emphasizing key life lessons and values.



### ● Creative Collaboration: Advertising Challenge and Teamwork

Students engaged in group activities that fostered creativity and teamwork at B-block. They participated in an advertising exercise where they designed canvas, visiting cards, small videos, and performed short dramas to promote a product, which was evaluated by Prof. (Dr.) Om P Mehta.

## ●Expert-Led Sessions: Communication, Wellness, and Cybersecurity

As part of the orientation program, students attended expert-led sessions on key academic and personal growth topics at VGEC's Auditorium. Abhishek Gautam emphasized the importance of effective communication, helping students build confidence in expressing their ideas. Dr. K. S. Purohit highlighted mental well-being, discussing stress management techniques for handling academic pressure. Prof. P. K. Brahmbhatt introduced breathing techniques to enhance focus and reduce anxiety, promoting overall well-being.



The program also addressed cybersecurity, educating students about digital threats such as phishing, malware, and ransomware. Experts shared best practices for safeguarding personal data and recognizing potential cyber risks, ensuring students could navigate the digital world safely and responsibly. Additionally, a session on UPSC preparation provided valuable guidance on exam strategies and career opportunities in civil services

## ●Building Bonds: Games, Sports, and Campus Exploration

To enhance interaction and engagement, students took part in fun and recreational activities like Dog and the Bone and badminton, Treasure Hunt, fostering teamwork, sportsmanship, and bonding among peers. These activities provided a refreshing break from academic sessions, allowing students to develop friendships and collaborate in a lively environment. Friendly competitions and group challenges further encouraged active participation, boosting confidence and team spirit.



The VGEC campus tour further helped students familiarize themselves with the college environment, making their transition smoother. Guided by senior students and faculty, the tour introduced them to important facilities such as the library, laboratories, lecture halls, sports complex, and student activity centers. This interactive exploration allowed students to better understand the academic and extracurricular resources available to them. Engaging with faculty members and seniors during the tour also provided valuable insights into campus life, helping students feel more connected and confident in their new journey.

# ▶ Department Activity

## ● Industrial Visit to Vikram Sarabhai Space Exhibition, ISRO



The Department of Information Technology organized an industrial visit for 4th semester (IT) students to the Vikram Sarabhai Space Exhibition, ISRO, Ahmedabad, on 16th April, 2024. A group of 41 students participated in the visit, accompanied by faculty members Prof. (Dr.) Dhaval Varia and Prof. (Dr.) Dipak Patel. The primary objective of the visit was to provide students with insights into space science, familiarize them with ISRO's various projects, and encourage them to pursue research activities in the field of space technology.



The visit offered students a unique opportunity to explore cutting-edge advancements in space research and gain a deeper understanding of the nation's remarkable achievements in the field. Such experiences play a vital role in inspiring young minds to engage in scientific

exploration and innovation. We extend our gratitude to ISRO for providing this enriching experience and to our faculty members for their guidance and support in making this visit a success.

## ● Expert Talk on "System: REST vs MVC"

The Information Technology Department, in collaboration with VAA, successfully organized an expert talk on "System: REST vs. MVC" for 3rd-year Computer Engineering and Information Technology students on 4th September, 2024 at the Auditorium, VGEC Chandkheda.The session was led by industry experts Mr. Abhi Shah and Mr. Tarun Mulchandani, Programmer Analysts at Argusoft, Gandhinagar. The primary objective was to provide students with a comprehensive understanding of REST and MVC architectures and their practical applications in modern software development.



The talk covered industry standards, practical use cases of REST and MVC, and a comparison of their scalability, performance, and security considerations. Students gained valuable insights into applying these architectures in real-world scenarios and learned best practices for secure application development.

The interactive session equipped students with the knowledge to make informed decisions in software architecture. The event concluded with a vote of thanks, expressing gratitude to the speakers and participants for making the session a resounding success.

## ⬤ Seminar on "Chase Your Dreams of - Masters Abroad"



The Information Technology Department, VGEC, organized an insightful seminar on "Chase Your Dreams of - Masters Abroad" for 3rd Year (Sem-5) students on 13th August, 2024 from 1:00 PM to 2:00 PM. The session was conducted by Mr. Chandramauli Bhatt, CEO of RENAISSANCE EDUCATION.The seminar aimed to inform and inspire students about the opportunities and challenges associated with pursuing a master's degree abroad. It highlighted the personal and professional growth that comes from gaining international experience, exploring new cultures, and acquiring advanced knowledge in specialized fields. Mr. Bhatt provided valuable insights into foreign universities, including admission criteria, fee structures, and the visa application process. He also discussed financial support options available to students aspiring to study abroad. The session equipped students with the essential knowledge required to navigate their journey toward obtaining a master's degree from a foreign institution, encouraging them to pursue their academic and professional ambitions with confidence.

## ▶ Program for Working Professionals

A new undergraduate-level B.E. Information Technology program for working professionals has been introduced at VGEC starting from the academic year 2024-25. With 15 seats, the program offers evening and weekend classes, focusing on industry-relevant IT skills.

## ⬤ State-Level Workshop on "CyberSecurity 101: Navigating the Cybersecurity Maze"

The Information Technology Department, VGEC, in collaboration with the IEI Student Chapter (IT), successfully organized a state-level workshop titled "CyberSecurity 101: Navigating the Cybersecurity Maze" on 5th October, 2024 at L-104, Auditorium, VGEC. The workshop aimed to enhance cybersecurity awareness and provide participants with fundamental knowledge about protecting digital assets. The event attracted over 50 participants from across the state, reflecting widespread interest in this critical domain. Renowned cybersecurity experts Mr. Prashant Bhavsar and Mr. Pratik Luhana, from leading cybersecurity firms and academia, delivered insightful sessions on key topics, including threat identification, data protection strategies, and best practices for online safety. The workshop provided a valuable learning experience, equipping attendees with practical insights and essential skills to navigate the evolving landscape of cybersecurity.

> "The function of education is to teach one to think intensively and to think critically. Intelligence plus character—that is the goal of true education."
> — Dr. Martin Luther King Jr.

▶ **Faculty Development**

### Prof (Dr.) Jashvant R Dave



Prof. Jashvant R Dave has been awarded PhD Degree for the title "Efficient Traffic Signal Control in VANET's: Integrating Local Traffic Dynamics and Emergency Vehicle" from Gujarat Technological University on 29th July, 2024.

### Prof (Dr.) Om P Mehta



Prof. Om P Mehta has been awarded Phd Degree for the title "Localization Algorithm in Wireless Sensor Networks" from Indus University on 10th October, 2024.

**Prof Jignesh H Vania**

Attended an Online FDP on "Cyber Attacks and Defence" by CDAC (Noida), MeitY, Government of India from 2nd January to 6th January, 2024.

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**Prof (Dr.) Dhaval J Varia, Prof (Dr.) Jashvant R Dave, Prof Nikunj C Gamit, Prof Manmitsinh C Zala, Prof Naimisha S Trivedi, Prof Chetna G Chand, Prof (Dr.) Om P Mehta**

Attended a seminar on "Upskilling Industry Ready Talent in Deep Tech Sector" by Directorate of ICT and e-governance in Gandhinagar on 2nd March, 2024.

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**Prof Manmitsinh C Zala, Prof (Dr.) Om P Mehta**

Completed a 12 weeks NPTEL MOOC course on "Joy of Programming with Python" from January to April, 2024.

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**Prof Jignesh H Vania**

Attended online FDP of 10 Hours National Faculty Development Program on "Data Analytics using Power BI and Tableau" organized by Faculty of IT and CS of Parul University -Gujarat, Atria Institute of Technology -Karnataka & Amity Pune -Maharashtra in Collaboration with ExcelR Edtech Pvt. Ltd. from 11th March to 15th March, 2024.

**Prof Jignesh H Vania, Prof (Dr.) Jashvant R Dave, Prof Naimisha S Trivedi, Prof Chetna G Chand, Prof Manmitsinh C Zala**

Attended Symposia "Data Analytics, Machine Learning and Artificial Intelligence (DAMLAI) – 2024" by GTU from 21st March to 23rd March, 2024.

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**Prof (Dr.) Dipak C Patel**

Attended a session in one day FDP on "Change the Lens, Change the Life" organized by GTU and IPDC at BAPS Swaminarayn Mandir, Ahmedabad on 9th August, 2024.

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**Prof (Dr.) Dhaval J Varia, Prof Naimisha S Trivedi, Prof (Dr.) Jashvant R Dave, Prof Nikunj C Gamit, Prof Chetna G Chand, Prof Jignesh H Vania**

Taken "Industrial Training at Argusoft India Ltd." from 15th July to 26th July, 2024.

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**Prof (Dr.) Dhaval J Varia, Prof Naimisha S Trivedi, Prof (Dr.) Jashvant R Dave, Prof Nikunj C Gamit, Prof Chetna G Chand, Prof Jignesh H Vania, Prof Vallabh G Patel, Prof (Dr.) Dipak C Patel, Prof (Dr.) Om P Mehta, Prof Manmitsinh C Zala**

Taken "Industrial Training at TatvaSoft House", Rajpath Club Road, Ahmedabad, Gujarat, 380054 from 24th June to 6th June, 2024.

"Innovation is seeing what everybody has seen and thinking what nobody has thought."
— Dr. Albert Szent-Györgyi

## ▶ Faculty Research & Publication

**Prof Nikunj C Gamit**

Attended 5 Days FDP and also acted as Liosioning Officer in "Train the Trainer Programme on NEP 2020" held by CTE, GTERS with NITTTR, Chandigarh at VSK, Gandhinagar from 14th October to 18th October, 2024.

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**Prof Naimisha S Trivedi, Prof (Dr.) Om P Mehta**

Attended Conference on "GenAI on GeneRative AI for Nurturing Sustainable Agriculture (GRAINS 2024)" at Ahmedabad University from 25th October to 26th October, 2024.

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**Prof Naimisha S Trivedi, Prof (Dr.) Jashvant R Dave, Prof Nikunj C Gamit**

Completed MOOC NPTEL course on "The Joy of Computing Using Python" from July to October, 2024.

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**Prof Naimisha S Trivedi, Prof (Dr.) Jashvant R Dave, Prof Nikunj C Gamit, Prof Jignesh H Vania, Prof (Dr.) Dipak Patel, Prof (Dr.) Om P Mehta, Prof Chetna G Chand , Prof (Dr.) Dhaval J Varia, Prof Manmitsinh C Zala**

Faculty Development Training Attended on "Generative AI and It's Application with Computer Vision" at LD Engineering College-Online from 16th December to 21st December, 2024.

**Prof (Dr.) Vibha D Patel**

Published a paper titled "Classification Using Optimal Polarimetric Parameters for Compact Polarimetric Data" In: International Conference on Soft Computing and its Engineering Applications - icSoftComp February, 2024. Communications in Computer and Information Science, vol 2031. Springer, Cham.

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**Prof (Dr.) Vibha D Patel**

Published a paper titled "Novel Integrated Conv Siamese Model for Land Cover Change Detection" In: International Conference on Soft Computing and its Engineering Applications - icSoftComp February, 2024. Communications in Computer and Information Science, vol 2030. Springer, Cham.

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**Prof (Dr.) Vibha D Patel**

Published a paper titled "Active learning-based hyperspectral image classification: a reinforcement learning approach" in The Journal of Supercomputing, 2461–2486 (January, 2024).

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**Prof Naimisha S Trivedi**

Published a paper titled "Optimization enabled elastic scaling in cloud" based on predicted load for resource management in an International Journal – Multiagent and Grid System 289-311 on 19th February, 2024.

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**Prof (Dr.) Om P Mehta**

Published a paper titled "A Study on Scan Trajectory" Based Effective Localization Method Using Mobile Anchor in Wireless Sensor Networks in Journal of Electrical Systems, Vol 20 No.7(2024) , in May, 2024.

## Prof Jignesh H Vania, Prof Nikunj C Gamit, Prof Naimisha S Trivedi, Prof Chetna G Chand, Prof (Dr.) Dhaval J Varia

Published a paper titled "Analyzing and Predicting Crowd Behavior" using Machine Learning in International Journal of INTELLIGENT SYSTEMS AND APPLICATIONS IN ENGINEERING, ISSN:2147-6799, IJISAE, 2024, 12(4), 2027–2036

## Prof Nikunj C Gamit, Prof Jignesh H Vania, Prof Naimisha S Trivedi, Prof Chetna G Chand

Published a paper titled "Employing Transfer Learning for the Automation of Short Answer Grading" in International Journal of INTELLIGENT SYSTEMS AND APPLICATIONS IN ENGINEERING, ISSN:2147-6799, IJISAE, 2024, 12(4), 2037–2047

## Prof (Dr.) Vibha D Patel

Published a paper titled "Deep learning fusion for dynamic cropland monitoring": integrating MUNet with Siamese networks and convolutional LSTM2D in Journal of Modeling Earth Systems and Environment, 10, 1–18.

## Prof (Dr.) Vibha D Patel

Published a paper titled "Ensemble Learning Approach for Predictive Maintenance" in Investment Casting Process 2023 IEEE 20th India Council International Conference (INDICON), 403-408.

## Prof Vallabh G Patel, Prof Manmitsinh C Zala, Prof (Dr.) Om P Mehta, Prof (Dr.) Dhaval J Varia

Published a paper titled "A Novel Approach to Forecast the Market Valuation of Newly Manufactured Cars" by Leveraging A Comprehensive Array of Vehicular Attributes in Journal of Electrical System 20-10s (2024):3362-3371.

## Prof (Dr.) Om P Mehta

Published a paper titled "Systematic Review on WSN Localization" using Metaheuristic and Learning Methods Based on AI Techniques in International Journal of Membrane Science and Technology in July, 2024.

## Prof Chetna G Chand, Prof Nikunj C Gamit , Prof Jignesh H Vania, Prof Naimisha S Trivedi

Published a paper titled "Sequential Pattern Mining for Enhanced Multi-Label Classification" International Journal of INTELLIGENT SYSTEMS AND APPLICATIONS IN ENGINEERING, ISSN:2147-6799, IJISAE, 2024, 12(17s), 868–877  Scopus February, 2024.

## Prof Naimisha S Trivedi, Prof (Dr.) Dhaval Varia , Prof Jignesh H Vania , Prof Chetna G Chand , Prof Nikunj C Gamit

Published a paper titled "Reinforcement Learning for Elasticity Control" in Containerized Cloud Applications: A Model-Based Approach with Elastic Docker Swarm International Journal of INTELLIGENT SYSTEMS AND APPLICATIONS IN ENGINEERING, ISSN:2147-6799, IJISAE, 2024, 12(21s), 4864–4873 Scopus April, 2024.

## Prof Dipak C Patel

Published a paper titled "An Efficient Global Optimization" Based Grey Wolf Optimization Algorithm for Fast Convergence to Various Optimization Functions SSRG International Journal of Electrical and Electronics Engineering, vol. 11, no. 10, pp. 47-52, 2024, Crossref  Scopus .

## ▶ Resource Person

### Prof (Dr.) Vibha D Patel

Delivered an expert talk on "Case Study: AI in Healthcare" in a week long faculty development program organized by the Commissionerate of Technical Education, Gandhinagar (CTE) and GTERS Gandhinagar at CTE, Gandhinagar on 30th January, 2024.

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### Prof (Dr.) Vibha D Patel

Delivered an expert talk on "Data Cleaning and Preprocessing Techniques" Organized By National Institute of Technical Teachers Training and Research, Bhopal & Computer Engineering Department, L. D. College of Engineering, Ahmedabad from 19th February to 1st March, 2024.

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### Prof (Dr.) Dipak C Patel

Worked as Jury member of "Hack the Spring" Hackathon event at GEC Gandhinagar on 1st March and 2nd March, 2024.

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### Prof (Dr.) Jashvant R Dave

Conducted a FDP on "Basics of Python Programming" on 13th July, 2024 at B P College of Computer Studies, Gandhinagar.

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### Prof (Dr.) Jashvant R Dave

Delivered an Expert talk on "Importance of Values in Engineering Studies" in Induction Program of Diploma Students at SAL Institute of Diploma Studies, Ahmedabad on 7th August, 2024.

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### Prof Jignesh H Vania

Acted as Jury member in "VGEC Viksit Bharat Ideathon Contest" at Chanakya Hall, A-block, VGEC Chandkheda on 15th October, 2024.

### Prof (Dr.) Jashvant R Dave

Conducted a session in one day FDP on "Change the Lens, Change the Life" organized by GTU and IPDC at BAPS Swaminarayn Mandir, Ahmedabad on 9th August, 2024 and at BAPS Swaminarayn Mandir, Rajkot on 12th August, 2024.

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### Prof Jignesh H Vania

Delivered Session on "SSIP and Innovation Awareness" (2nd Year Students) on SSIP Policy and Innovation at B-202, IT Department, VGEC on 1st August, 2024.

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### Prof Jignesh H Vania , Prof (Dr.) Dipak C Patel

Delivered Session on "SSIP and Innovation Awareness" (1st Year Students) on SSIP Policy and Innovation at J-201, J Block, VGEC on 12th August, 2024

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### Prof Naimisha S Trivedi

Acted as a Jury member in "VGEC SSIP Internal Smart India Hackathon 2024, GTU" on 10th August, 2024.

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### Prof Jignesh H Vania

Delivered an expert lecture on "Empowering School Students and teachers through Student Start-Up and Innovation Outreach" by Gyaandeep Vidhyalaya, Opp. Avani Bhavan, ONGC Colony, Chandkheda, Ahmedabad on 24th December, 2024.

# ► Student Achievements

Jay Patel (Semester 7) achieved the highest milestone, Gold Milestone, in the Microsoft Learn Student Ambassadors Program (Year 2024), ranking among the top 18 students in India out of more than 3,000 participants. The recognition was awarded by Microsoft Corporation, 1 Microsoft Way, Redmond, WA 98052, US, on 8th August 2024.

Het A. Shah secured 96.33 percentile in CAT 2024, conducted by the Indian Institutes of Management, on 19th December 2024.

Jay Gohil, Jenith Panchal, and Bhavya Shah from the IT Department were proudly awarded as top rankers in academics by the prestigious Devang Mehta Foundation Trust Award 2024. This remarkable achievement was recognized by Gujarat Technological University on the 9th of August, 2024.

## Poster Competition Achievement
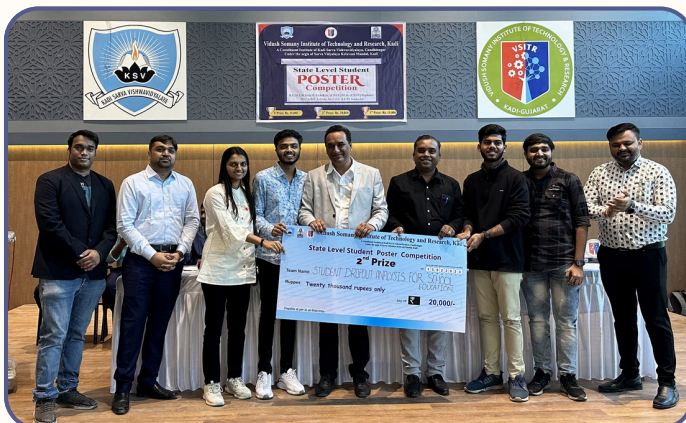
We proudly congratulate Uday Gohel, Dhruv Shah, Harsh Nirmal, and Isha Sanghani from the 6th semester, Information Technology Department, for securing 2nd place in a poster competition held at Kadi by Vidush Somany Institute of Technology and Research on 15th February 2024. The team earned a prize of ₹20,000 with their insightful presentation on "Dropout Analysis for School Education", showcasing their research and analytical skills. Their achievement reflects their dedication and innovative approach to addressing real-world educational challenges.

# ▶ Hackathons 2024

## ●Anveshana - Atmiya Hackathon 2024



We are proud to announce that Team Anveshana secured 2nd place at the 36-hour Anveshana Hackathon 2024 held at Atmiya University on 10th September 2024. The team, led by Mihir Patel, alongside Ayush Chauhan, Tanisha Dave, and Harekrushn Tejani, stood out with their innovative solution to the problem statement: "Build a website to prevent cheating in exams." Their website integrates advanced features such as real-time monitoring, AI-based activity detection, and secure examination protocols, offering educational institutions a powerful tool to maintain academic integrity. Competing against some of the brightest minds, Team Anveshana displayed exceptional technical expertise, creative problem-solving, and seamless collaboration. Their success highlights our department's dedication to nurturing innovation and excellence. We extend our heartfelt congratulations to Mihir Patel, Ayush Chauhan, Tanisha Dave, and Harekrushn Tejani for their remarkable achievement. Your dedication and ingenuity continue to inspire us all.

## ●Odoo Combat 2024



We are delighted to celebrate the success of Ayush Chauhan, Tanisha Dave, Nishtha Malkan, and Khushi Patel from the 7th semester IT Department, who secured 2nd position at Odoo Combat 2024 on 14th July, 2024. Competing against 600 teams from across India, they impressed the judges with their "Innovative Library Management System".

Their dedication, collaborative spirit, and technical expertise set them apart in this highly competitive event. This achievement reflects the excellence and innovation fostered within our department.

## ●Spark The Summer Hackathon 2024



We proudly congratulate Yaxraj Dabhi, Jenith Panchal, and Meet Panchal from the 5th semester IT Department for securing 3rd position at the Spark The Summer Hackathon organized by GDSC at Ganpat University on 27th July 2024.

The team showcased their creativity and technical expertise by developing an "Innovative Marketplace for Game Development and 3D Designing Assets". Their achievement against strong competition reflects their commitment to innovation and excellence.

## ► Result Analysis

### Overall Result Winter 2023

Legend: ■ % of Students Having SPI>=7 ■ VGEC IT Branch Result % ■ GTU IT Branch Result %

| Semester | % of Students Having SPI>=7 | VGEC IT Branch Result % | GTU IT Branch Result % |
|---|---|---|---|
| 1 | 68 | 80 | 58.83 |
| 3 | 60 | 88.24 | 66.65 |
| 5 | 90.58 | 97.65 | 86.32 |
| 7 | 92.85 | 98.81 | 94.34 |

(Y-axis: % Result; X-axis: Semester)
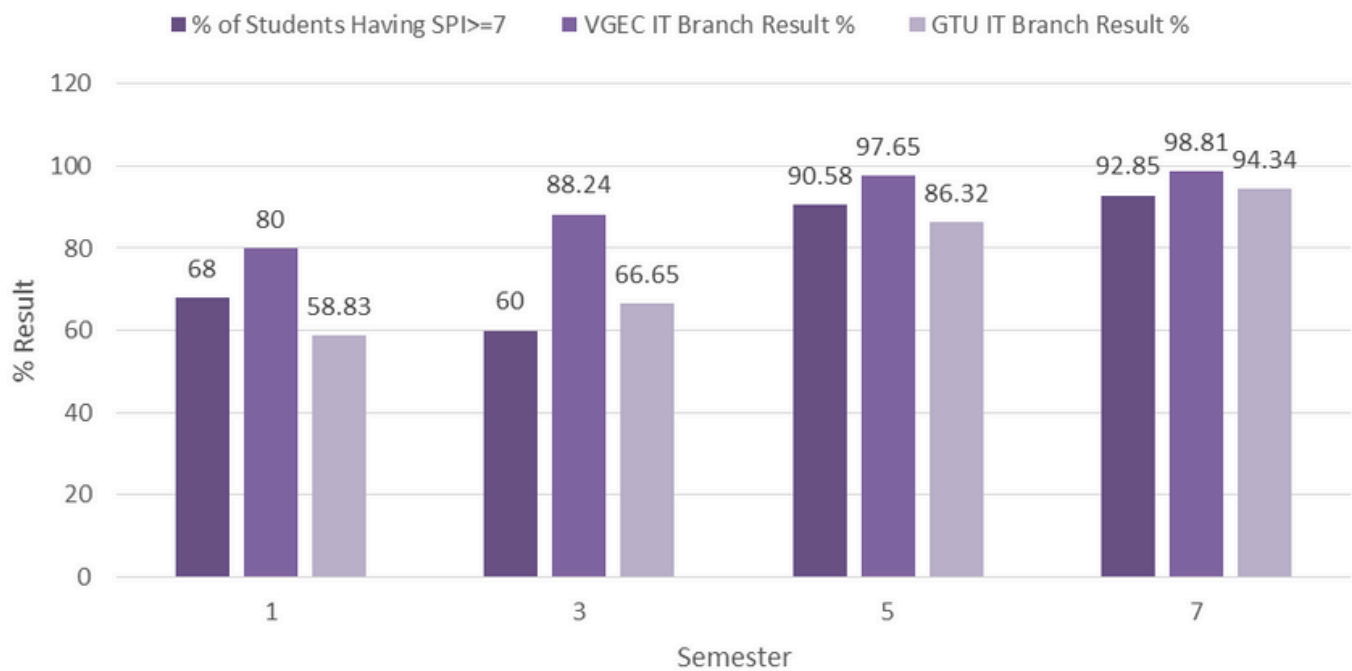
### Overall Result Summer 2024

Legend: ■ % of Students Having SPI>=7 ■ VGEC IT Branch Result % ■ GTU IT Branch Result %

| Semester | % of Students Having SPI>=7 | VGEC IT Branch Result % | GTU IT Branch Result % |
|---|---|---|---|
| 2 | 52.05 | 83.56 | 56.66 |
| 4 | 58.82 | 83.53 | 71.38 |
| 6 | 98.8 | 100 | 92.86 |
| 8 | 97.6 | 100 | 99.61 |

(Y-axis: % Result; X-axis: Semester)
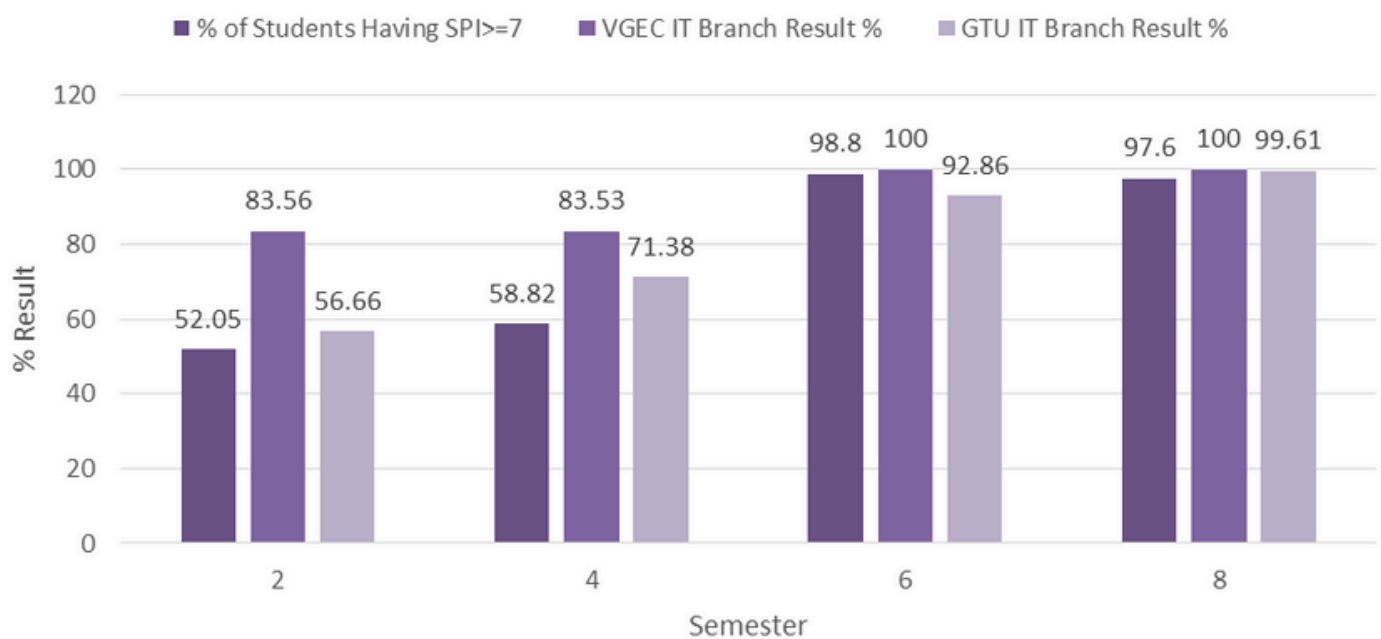
▶ **Final Year Students**

**Shah Bhavya Darshan**
SPI - 10 | CPI - 9.55

**Mavani Devarsh Samirbhai**
SPI - 10 | CPI - 9.29

**Darji Niraj Bhagyeshbhai**
SPI - 10 | CPI - 9.11

**Gupta Janvi Sanjaykumar**
SPI - 10 | CPI - 9.00

**Mandalia Sujal Shaileshbhai**
SPI - 10 | CPI - 9.04

## ▶ Placement Cell

| Sr. NO. | Name | Company Name | Pakage (LPA) | Designation |
|---|---|---|---|---|
| 1 | Siddharth Bhagwan Kalyani | ArguSoft India Ltd. | 7.12 | Programmer Analyst |
| 2 | Himanshu Ghanshyambhai Dodiya | Crest Data Systems | 6 | Site Reliability  Engineer |
| 3 | Harsh Rushiraj Makwana | Crest Data Systems | 6 | Site Reliability  Engineer |
| 4 | Vinay Kishangopal Sharma | Bacancy Technology Pvt. Ltd. | 6.2 | Software Engineer |
| 5 | Krutika Rameshbhai Prajapati | Bacancy Technology Pvt. Ltd. | 6.2 | Software Engineer |
| 6 | Govind Jethabha Gojiya | Bacancy Technology Pvt. Ltd. | 6.2 | Software Engineer |
| 7 | Ridhamkumar Bhaveshkumar Patel | Bacancy Technology Pvt. Ltd. | 6.2 | Software Engineer |
| 8 | Manav Kishorbhai  Vyas | Bacancy Technology Pvt. Ltd. | 6.2 | Software Engineer |
| 9 | Fenil Samirkumar Rami | Bacancy Technology Pvt. Ltd. | 6.2 | Software Engineer |
| 10 | Khushal  Shabdprakash Rajput | Bacancy Technology Pvt. Ltd. | 6.2 | Software Engineer |
| 11 | Sujal Shaileshbhai Mandalia | Silver Touch Technologies Limited | 6.2 | Software Engineer |
| 12 | Nilay Nimeshkumar Doshi | Tatva Soft | 6.2 | Software Engineer |
| 13 | Panil Nileshkumar Parikh | Tatva Soft | 6 | Software Engineer |
| 14 | Nayankumar Indubhai Chanchad | Tatva Soft | 6.12 | Developer |
| 15 | Shreyash Hareshbhai Detroja | Tatva Soft | 6.12 | Developer |
| 16 | Dhruvil Vithalbhai Bhojani | Tatva Soft | 6.12 | Developer |
| 17 | Dhrumil Rajeshbhai Ponkiya | Tatva Soft | 6.12 | Developer |
| 18 | Bhautik Kantibhai  Changani | Tatva Soft | 6.12 | Developer |
| 19 | Hardi Kalubhai Jayani | Tatva Soft | 6.12 | Developer |
| 20 | Vishesh Hemantkumar Agrawal | Tatva Soft | 6.12 | Developer |
| 21 | Archit Chetanbhai Solanki | Tatva Soft | 6.12 | Developer |
| 22 | Gautam Keshubhai Rathod | Hexacoder  Technologies | 5 | Software Engineer |
| 23 | Khushi Narendrasingh Rawat | Hexacoder  Technologies | 5 | Software Engineer |
| 24 | Bhavya Darshan Shah | Codal | 6 | Software Engineer |
| 25 | Umang Pareshbhai  Mistry | Codal | 6 | Software Engineer |
| 26 | Ayushi Vipulbhai Mandavia | Shaligram Infotech | 4.8 | Full Stack Developer |
| 27 | Sahil Dhirubhai Nabhoya | Shaligram Infotech | 4.8 | Full Stack Developer |
| 28 | Yaksh Mayurbhai  Bhesaniya | Rapidops | 5.8 | Software Engineer |
| 29 | Mayankkumar  Dilipbhai Patel | Rapidops | 5.8 | Software Engineer |
| 30 | Keval Parmabhai Maru | Rapidops | 5.8 | Software Engineer |
| 31 | Utsav Vinubhai  Donda | Rapidops | 5.8 | Software Engineer |

| 32 | Priyanka Gopalkumar  Parekh | Rapidops | 5.8 | Software Engineer |
|----|-----------------------------|----------|-----|-------------------|
| 33 | Miral Mansukhbhai  Chauhan | DRC Systems India Limited | 4 | Software Engineer |
| 34 | Anjan Rameshbhai  Aghera | DRC Systems India  Limited | 4 | Software Engineer |
| 35 | Meet Jashvantkumar  Patel | DRC Systems India  Limited | 4 | Software Engineer |
| 36 | Manan Dineshbhai  Vadher | DRC Systems India  Limited | 4 | Software Engineer |
| 37 | Darshil Rajeshbhai  Kanzariya | Crest Data Systems | 6 | Software Engineer |
| 38 | Vandan Himmatbhai Vala | Aptologics | 4.2 | Data Engineer |
| 39 | Harsh Vipulbhai  Vaghasiya | Intech Systems | 4.25 | Technical Consultant Trainee |
| 40 | Harsh Vipulbhai  Vaghasiya | Webelight Solutions. | 3 | Nodejs Intern |
| 41 | Sahil Ganpatbhai  Jambukiya | Amnex Infotechnologies Pvt. Ltd | 4 | Software Engineer |
| 42 | Mohammadasif  Rahimbhai Mesaniya | Amnex Infotechnologies Pvt. Ltd | 4 | Software Engineer |
| 43 | Mann Sunilbhai  Kapadiya | Odoo India Pvt Ltd | 5 | Software Engineer |
| 44 | Anand Ramavirbhai Sharma | Optimum Solutions | 4 | Full Stack Developer |
| 45 | Krupalee Rameshbhai  Suriya | 7Span | 3 | Software Engineer |
| 46 | Avinashbhai Savjibhai Dama | 7Span | 3 | Software Engineer |
| 47 | Krushi Narendrabhai  Patel | eSparkBiz Technologies Pvt. Ltd. | 3.6 | Software Engineer |
| 48 | Ayushi Vipulbhai  Mandavia | Micron Semiconductor Technology India | 13.17 | Graduate Engineer Trainee |
| 49 | Aayushi Mukeshkumar Prajapati | TCS | 7 | System Engineer |
| 50 | Foram Bhaveshbhai Barot | TCS | 3.36 | Assistant System Engineer |

| | |
|---|---|
| Total Interested Students | 52 |
| Placed Students | 48 |
| Total Offers | 50 |

| | |
|---|---|
| CTC <= 3 Lakhs | 3 |
| ₹3 Lakhs < CTC < ₹4 Lakhs | 2 |
| CTC >= ₹4 Lakhs | 45 |

## Job offers 2024



- ● CTC >= ₹4 Lakhs
- ● ₹3 Lakhs < CTC < ₹4 Lakhs
- ● CTC <= 3 Lakhs
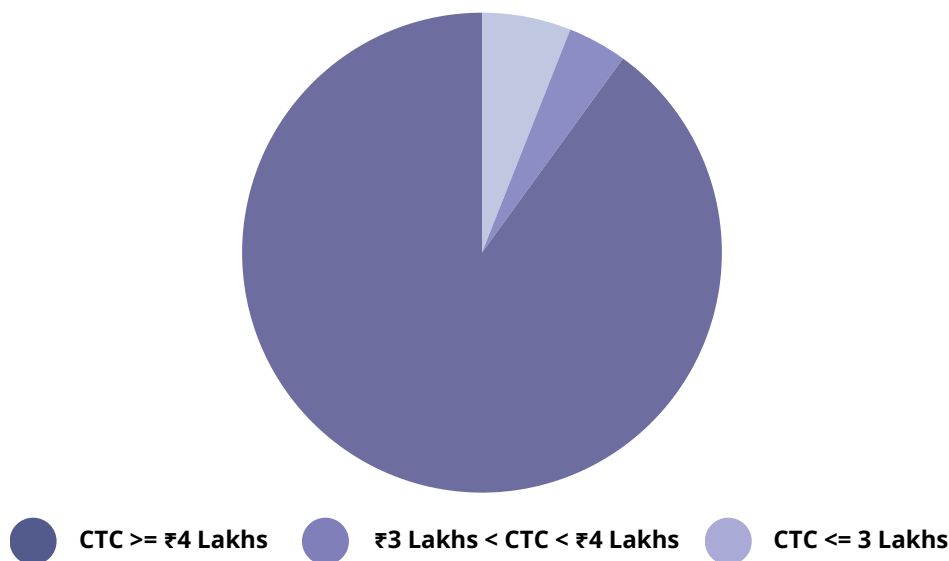
## ▶ Student Startup and Innovation Policy (SSIP) Projects

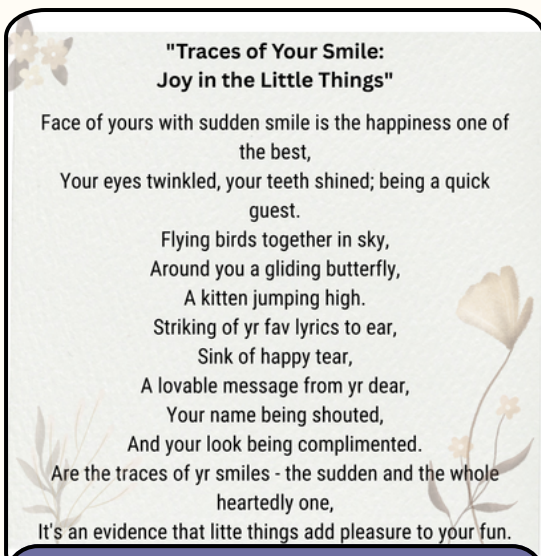| Sr. No. | Project Title | Team Members | Name of Faculty | Budget |
|---|---|---|---|---|
| 1 | Age and Gender Prediction through Dental X-ray Imaging: An AI-based Approach | Payal Bhansali Aditi Jadav | Prof (Dr.) Vibha D. Patel | ₹7000/- |
| 2 | Campus Navigation System For Visually Impaired People | Om Kapoor, Kamya Shah, Devasya Patel, Mahi Shah | Prof (Dr.) Om P. Mehta, Prof (Dr.) Dhaval Varia, Prof Manmitsinh Zala | ₹37,800/- |
| 3 | Meshables | Yaxraj Dabhi | Prof (Dr.) Dipak C. Patel, Prof Jignesh H. Vaniya | ₹75,000 |
| 4 | Quiz Portal | Ayush Chauhan, Devam Doshi, Harekrushn Tejani, Mihir Patel, Tanisha Dave, Nishtha Malkan | Prof (Dr.) Jashvant R. Dave, Prof Nikunj C. Gamit | ₹1,34,800 |

**VGEC - IT Newsletter**

## ▶ Creative Corner



**Neha Patel  2nd Year**



**Vidhi Rose 2nd Year**



"Traces of Your Smile:
Joy in the Little Things"

Face of yours with sudden smile is the happiness one of the best,
Your eyes twinkled, your teeth shined; being a quick guest.
Flying birds together in sky,
Around you a gliding butterfly,
A kitten jumping high.
Striking of yr fav lyrics to ear,
Sink of happy tear,
A lovable message from yr dear,
Your name being shouted,
And your look being complimented.
Are the traces of yr smiles - the sudden and the whole heartedly one,
It's an evidence that litte things add pleasure to your fun.

**Nazneen Patel 2nd Year**



**Majethiya Kamal 3rd Year**

# VISHWAKARMA GOVERNMENT ENGINEERING COLLEGE

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