

NEWSLETTER

JAN – JUNE EDITION 2025



INFORMATION TECHNOLOGY DEPARTMENT
Government Engineering College, Gandhinagar,
Sector -28



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NEWSLETTER

(JANUARY - JUNE) EDITION 2025

OVERVIEW

The Government Engineering College, Gandhinagar (GECG) was established in 2004 to give higher education in engineering and technology. The All-India Council of Technical Education (AICTE), New Delhi, and the Institute of Engineers (India) recognized the institute. The college is administered by the Directorate of Technical Education, Gujarat State, Gandhinagar, and is affiliated with Gujarat Technological University (GTU). All the courses of this college were taught according to the GTU (Gujarat Technological University) syllabus and exams.

In November 2007, the college moved to its new campus at Sector-28, near GEB, inaugurated by Smt. Aanandiben Patel, Minister of Higher and Technical Education. It is spread over 33 acres (130,000 m²) of land.



Principal's Message

Dear Students, Faculty, and Staff,

I am delighted to extend a warm welcome to the latest edition of our e-newsletter. As we embark on this new chapter, I am filled with immense pride and gratitude for the dedication and hard work of our entire community. The period of January to June 2025 has been a testament to our collective spirit, marked by numerous academic, technical, and extracurricular achievements.

At GEC Gandhinagar, our primary mission is to nurture the potential within each student. We strive to create an environment where academic excellence and co-curricular activities blend seamlessly, providing a holistic and enriching experience. Our highly qualified faculty and management are committed to empowering you not only with knowledge but also with the skills and confidence to stand out in the competitive world. We believe that by focusing on your overall development, we are preparing you to become representatives of our prestigious institution and to make a meaningful impact on society.

As we look ahead, let us continue to innovate, collaborate, and support each other. I am confident that together, we will continue to achieve great things. Thank you for being a part of our journey.
Best regards,

Dr. Sweta Dave
Principal, GEC Gandhinagar



HOD's Message

Dear Members of the Information Technology Department,
It is with great pleasure that I share this latest issue of our departmental newsletter, reflecting on the accomplishments and events from the past six months. This period has showcased our department's consistent improvement and unwavering commitment to academic and technical excellence.

The B.E. Information Technology program is designed to provide you with a strong foundation in the mathematical, scientific, and engineering principles necessary to solve complex problems. Our dedicated and well-qualified faculty members, with their extensive experience and knowledge, are here to guide you, ensuring that you not only learn the fundamentals but also stay abreast of the latest technological advancements.

This newsletter highlights the many achievements of our students and faculty, from successful placements and innovative projects to participation in national-level events. These accomplishments are a direct result of your hard work and passion. As the Head of Department, I am proud of the research culture we are cultivating and the industry-ready skills we are imparting.

Let us continue to strive for greatness and contribute to a brighter future. I encourage all of you to continue your pursuit of knowledge and to embrace the challenges ahead.

Sincerely,

Prof. J.S. Dhobi
HOD, IT Department



About GEC, Gandhinagar

Established in 2004, Government Engineering College, Gandhinagar (GEC-GN) takes pride in its highly motivated students. Our students are life-long assets that help this institute to continuously evolve and work towards its Vision. Approved by AICTE.




The College is administrated by the Directorate of Technical Education, Gujarat State, Gandhinagar. GEC-GN is affiliated with Gujarat Technological University(GTU).

About IT Department

Department of Information Technology is well posed to cater the needs of the course. It is equipped with well-developed laboratories to satisfy the course curriculum of various subjects related especially to the computer field.



The main focus of the course is educating students about information technology. Almost all fields have been computerised in order to make it easier to handle the problems of designing, manufacturing, maintenance, servicing, researching, marketing, and accounting. GEC-GN offers its students a wide range of courses to choose from. This helps them to become multi-skilled personalities who can handle the challenges that industry and society will pose to them as future engineers. Committed to delivering excellence in everything that it does, our institute works towards reducing the gap between industry and education.




GEC-GN endeavours to educate its students in a manner that offers them an opportunity to excel in academics and be completely aware of their future industrial needs for professional expertise through an innovative and flexible curriculum. This trains the students on this campus to reach their highest potential.

The highly dedicated and educated faculty members of GEC-GN are experts in their professional fields. Their professional skills and industry linkages help students by grooming them to become competent engineers who will contribute to society and the economy in the long run.

The B.E. Information Technology programme includes computer operations in different languages, data generation, collection, and utilisation of information.

The course imparts all the basics as well as the latest knowledge about the rapidly developing field of computers. The course is designed to keep students in step with the practical field.



This requires critical analysis, design, evolution, and improvement of computing systems in the context of computers and industry services. It is our objective that students should be able to pursue advanced studies in computer engineering and information technology on a competitive, universal basis. The B.E. Information Technology programme includes computer operations in different languages, data generation, collection, and utilisation of information.

The college has well-established computer labs that are facilitated with IBM's X series Xeon and dual-processor Pentium servers, a Compaq server, and several hundred workstations connected via LAN and WAN.

Vision & Mission

Vision

- To educate students to be innovative and technically competent IT professionals to meet the industrial and social requirements.

Mission

- To produce technically capable and socially responsible graduates.
- To create facilities where students gain practical exposure in IT.
- To support research culture, consultancy work and enhancement of entrepreneurship skills.
- To enhance industry interaction for good placements and real-world exposure.
- To induce moral, ethical values and spirit of social commitment.

PEOs & PSOs

Program Educational Outcomes (PEOs)

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.

The graduate will exhibit professionalism, teamwork, leadership skills and exposure to current needs.

The graduate will be capable enough to adapt the changes in roles and responsibilities through professional development and lifelong learning over self-study or continuing education in IT or managerial studies.

The graduates will ethically apply their computing knowledge and skills considering societal, economic and environmental factors.



Program Specific Outcomes (PSOs)

Foundations of Software Development: Use programming and software design principles to develop various software products in emerging areas.

Foundation of Mathematical Concepts: Ability to apply mathematical concept to solve computation task, model real problem using appropriate data structure and suitable algorithm.

Competent in Emerging Trends: Ability to use recent tools and techniques necessary for computing practices.

Applications of Computing and Research Ability: Ability to use knowledge in various areas to identify research gaps and provides innovative solution.

FACULTY, IT Department



Prof. J.S. Dhobi
HOD, IT Department



Prof. Mahendrakumar Patel
Assistant Professor



Prof. Komal Anadkat
Assistant Professor



Prof. Sureshkumar Patel
Assistant Professor



Prof. Hetal Chauhan
Assistant Professor



Prof. Chetan Kapadiya
Assistant Professor



Prof. Prashant Chaudhari
Assistant Professor

Infrastructure

The building no. 5 is allocated to CE-IT department. It is a three-storey building with around 25 rooms for lectures, different labs particularly for hands-on practice on machines and cabin for the respected faculties and HOD sir. The entire building is under the surveillance of CCTV camera to maintain the safety and integrity of the Department.



Entire building is facilitated with high-speed Wi-Fi network for easy networking while being in the building. The labs are provided with well-maintained WLAN network, efficiently maintained by our networking genius Prof. Prashant Chaudhari.



Laboratories include:

- Programming & Application Development Lab
- Networking & Project Lab
- Database & OS Lab
- Digital & Advanced Programming Lab

Each lab is equipped with modern desktops, servers, and open-source as well as licensed software, ensuring students gain hands-on experience with real-world tool.

FACULTY ACHIEVEMENTS

- Prof. K D Anadkat participated in NPTEL Online course 'Intellectual Property' during Jan-April 2025.
- Prof. K D Anadkat promoted as Associate Professor and posted at GEC Gandhinagar.



Prof. Komal Anadkat
Assistant Professor

- Prof. M N Patel participated in NPTEL Online course 'Computer Networks and Internet Protocol' during Jan-April 2025.
- Prof. M N Patel promoted as Associate Professor and posted at GEC Modasa.



Prof. Mahendrakumar Patel
Assistant Professor

- Prof. S B Patel participated in NPTEL Online course 'Computer Networks and Internet Protocol' during Jan-April 2025.
- Prof. S B Patel promoted as Associate Professor and posted at GEC Gandhinagar.



Prof. Sureshkumar Patel
Assistant Professor

- Prof. H B Chauhan participated in NPTEL Online course 'Computer Networks and Internet Protocol' during Jan-April 2025.



Prof. Hetal Chauhan
Assistant Professor



FACULTY PUBLICATIONS

- Prof. K D Anadkat's paper titled 'ENHANCING EMOTION RECOGNITION WITH MULTIMODEL APPROACH USING DEEP NEURAL NETWORKS' has been published in the Scopus indexed journal in March 2025.


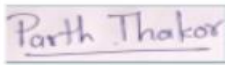
PARTICIPATION IN STTP/SEMINAR/WORKSHOP

- Prof. K D Anadkat participated in NPTEL Online course 'Computer Networks and Internet Protocol' during Jan-April 2025.

STUDENT ACHIEVEMENTS & PARTICIPATION

- Mr. Harsh Rana (Enrollment no:220133116015, Final year IT Student) completed his academic project at Institute for Plasma Research on Developing a Modbus-RTU interface to access PLC data for the ICRH matching system.
- Mr. Thakor Parthsinh Ranveersinh (Enrollment No:220130116064, 6th IT student) Qualified GATE Exam (Computer Science and Information Technology) 2025 with All India Rank 724.

Your GATE 2025 Result [CS]

Name	PARTHSINH RANVEERSINH THAKOR	 Photograph	
Registration Number	CS25S12013144		
Gender	Male		
Parent's/Guardian's name	RANVEERSINH THAKOR		
Date of Birth (YYYY-MM-DD)	2004-07-24		
Examination Paper	Computer Science and Information Technology (CS)	 Signature	
Marks out of 100*	67.91		
All India Rank in this test paper	724		
Qualifying Marks**	29.2	26.2	19.4
	General	OBC-NCL/EWS	SC/ST/PwD
GATE Score	744		

*Normalized marks in case of multisession papers (CE and CS).

DEPARTMENTAL ACTIVITIES

- Seminar: Outperform the Interview
- Date: 4 March 2025
- Duration: 1.5 hours
- Number of Participants: 90+
- Expert: Mr. Kshitij Trivedi (Asst. General Manager, iNDEXb), Soft Skills coach
- Faculty Coordinator: Prof. Chetan M Kapadiya & Dr. Pratik A Barot
- Objective: Soft Skills Training for final year students
- Outcome: Students learned new concepts, gained new perspectives and developed critical thinking skills.



- Seminar: Alumni Meet and Expert talk
- Date: 27 Feb 2025
- Duration: 2 hours
- Number of Participants: 163
- Expert: Mr. Aashutosh Verma, Software Developer (Meditab), Chhatrapalsinh Zala (Software Engineer, Intech)
- Faculty Coordinator: Prof. Chetan M Kapadiya & Dr. Dhawal P Khem
- Objective: Alumni meet and alumni expert talk
- Outcome: Alumni expert talk was valuable insights, career guidance and networking opportunities for the students.



BLOG:1

“The Rise of Generative AI in Software Development”


- *By Agath Diya, IT Department*

• Artificial Intelligence is no longer limited to research labs; it is transforming the way developers write, debug and optimize code.

• Generative AI tools such as GitHub Copilot, ChatGPT, and Google Gemini are now acting as “co-pilots” for programmers, helping them write efficient code with fewer errors.

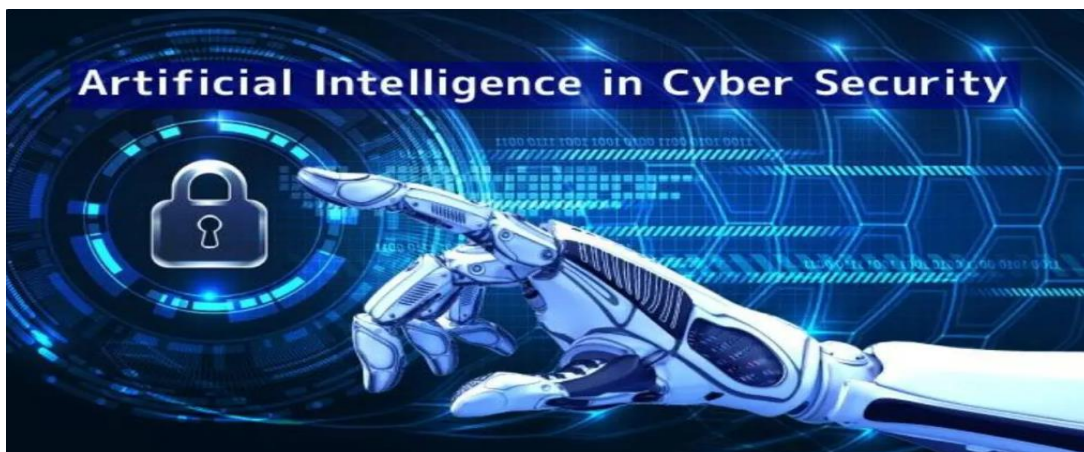



- Traditionally, coding required memorizing syntax and long debugging hours. With AI, students can now:
 - Generate code snippets for repetitive tasks.
 - Get real-time suggestions while programming.
 - Understand complex algorithms with simplified explanations.

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- However, this convenience comes with caution. Over-reliance on AI may limit a developer's problem-solving skills. As future engineers, we must treat AI as an assistant, not a replacement.
 - The future of software development is clearly *AI-augmented coding*. Developers who learn to collaborate with AI will be the ones shaping tomorrow's technology landscape.
 - *Takeaway:* Learn how to use AI tools effectively, but never stop building your core problem-solving ability.

“Cybersecurity in the Age of AI-Powered Threats”

- *By Hitanshi Bais, IT Department*
- As technology advances, so do cybercriminals. The rise of AI has made cybersecurity both stronger and more vulnerable at the same time.
- AI is being used by hackers to create deepfake scams, phishing emails, and malware that look dangerously real. On the other hand, organizations are also using AI to detect anomalies, predict breaches, and respond faster to attacks.
- Key AI-driven cybersecurity challenges include:
 - AI-powered phishing: Emails crafted so perfectly that even experts get tricked.
 - Automated hacking tools: Bots that scan for vulnerabilities 24/7.
 - Deepfakes: Fake audio or video used for fraud and misinformation.



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- At the same time, AI-based defense systems like anomaly detection, behavioral analysis, and automated firewalls are helping organizations stay ahead.
 - For IT students, ethical hacking and cybersecurity are becoming top career opportunities. Companies are actively hiring people who understand AI's dual nature in security.
 - *Takeaway:* In the age of AI, cybersecurity isn't optional — it's essential.


“Blockchain Beyond Cryptocurrency”



When people hear the word blockchain, they often think of Bitcoin or Ethereum. But blockchain is much more than cryptocurrency. It is a revolutionary technology of trust that can transform industries far beyond finance.

Some exciting applications of blockchain include:

- Supply Chain Management: Tracking goods from origin to destination to prevent fraud.
- Voting Systems: Secure, tamper-proof digital voting for fair elections.
- Healthcare: Safe storage and sharing of medical records with privacy.
- Smart Contracts: Automated agreements that execute when conditions are met.

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- Blockchain ensures transparency, security, and decentralization, making it a backbone for the future of the digital economy.
 - As engineers, understanding blockchain concepts will open doors in fields like Web 3.0, decentralized apps (dApps), and digital identity management.
 - *Takeaway:* Blockchain is not just about coins — it's about building a trusted digital future.

Head Of Department

Prof. J. S. Dhobi

HOD, IT Department

Newsletter Co-ordinator

Prof. S. B. Patel

Assistant Professor, IT Department

Newsletter Editors

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“Thank You”

