GOVERNMENT ENGINEERING COLLEGE
GANDHINAGAR
॥ कर्ममयं ज्ञानं एवं ज्ञानमयं कर्म ॥

NEWSLETTER

JULY - DEC EDITION 2025

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

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NEWSLETTER

(JULY - DECEMBER) E D I T I O N 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. Komal Anadkat

Associate Professor

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. Komal Anadkat
HOD, IT DEPARTMENT

Prof. Sureshkumar Patel
Associate 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

- ROBOFEST 5.0, a national level robot making event organized by GUJCOST. One team mentored by Dr. Komal Anadkat qualified for the Grand finale in the Autonomous Underwater Vehicle category. The team received a cash prize of Rs. 50,000 in the ideation level and 2,00,000 for winning in the Level-II “Proof of Concept” .

PARTICIPATION IN STTP/SEMINAR/WORKSHOP

- Prof. K D Anadkat attended FDP at nitttr extension centre, ahmedabad during 10/11/2025 to 14/11/2025 on Mathematical Foundations in Machine Learning and Deep Learning.

STUDENT CREATIVITY

- Priya Varu, an IT Sem 4 student, is a thoughtful poet whose words beautifully reflect emotions, self-reflection, and silent strength. Her poem touches the heart and invites readers into a deep conversation with the self.

“ढलती शाम और कुछ सवाल...”

आज मेरी खिड़की पर एक
चिड़िया आई,
मुझसे कहने लगी–
“ओ आरज़ू, सुनती हो?
कहाँ खोई-खोई सी रहती हो?
ढलते सूरज को देख कर
आख़िर क्या लिखती रहती हो?
आँखों में जो नमी छुपाए बैठी हो,
क्या किसी से ख़ामोशियों में बातें भी करती हो?
यूँ गुमसुम बैठी रहती हो,
मानो ज़िंदगी हार बैठी हो।
जानती हो, किन ख़यालों में हो।
पर अपना ख़याल कभी रखती हो?
शायर हो,
कविताएँ लिखती हो,
मुझे तो लगा, मुझ जैसी ही हो–
बातें करती हो,
फिर भी ख़ुद से ही उलझी रहती हो।
ख़ुद से परेशान हो,
या ज़माने से–
वजह चाहे जो भी हो,
पर शब्दों का क्या कहर ढाहती हो।
जो मन में रखती हो,
उन्हें काग़ज़ के पन्नों पर
बिना इजाज़त उतार देती हो।
बताओ, ख़ुद को कला कहकर
ज़िंदा कैसे रखती हो?
जब सजती-संवरती हो,

क्या ख़ुद को सुंदर लगती हो?
माना कोई तारीफ़ करने वाला नहीं,
तो क्या जीना छोड़ देती हो?
यूँ बैठे-बैठे
ख़ुद को ही बोझ समझने लगती हो।
क्या आज भी पहले जैसी हो–
या ज़माने की रफ़्तार में
चुपचाप बदल चुकी हो?
अब तो सूरज भी जा चुका है,
कभी ठहर कर
गौर से देखती भी हो?
और सुनो, आरज़ू–
सुबह किताबों के बोझ के साथ
घर से निकलती हो,
और शाम को शब्दों के बोझ के साथ
लौट आती हो।
कक्षा में हर सवाल का जवाब देती हो,
चाँद आने ही वाला है...
फिर भी आज
ये आँसू क्यों बहाती हो?
जानती हो, किन ख़यालों में हो–
तो चेहरे का ये नूर
कम क्यों करती हो?
इन आँखों में चाहत की
कमी क्यों ला रही हो?
जो चाहो, पा सकती हो–
पर बताओ,
ख़ुद को आईने में
पर जब दिल सवाल करता है,
तो चुप रहना चुन लेती हो।
मंच पर खड़ी होकर
हज़ारों दिल जीत लेती हो,
पर जब बात अपनी हो,
तो आवाज़ गले में अटक जाती है।

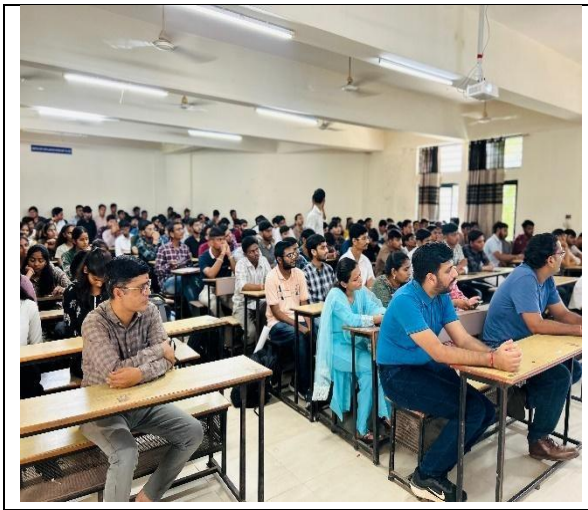
तालियों की गूँज से
पहचान बना लेती हो,
पर तन्हाई में
ख़ुद से मिलना
अक्सर टाल देती हो।
सपने बड़े साफ रखती हो,
पर नींद हमेशा
अधूरी क्यों करती हो।
सबको संभालने की आदत में
हर रोज़ थोड़ा-थोड़ा
ख़ुद को खो देती हो।
और जब कोई पूछे–
"कैसी हो?"
तो बिना सोचे कह देती हो,
"मैं ठीक हूँ,"
जबकि इन आँखों का झूठ
मैं अच्छे से पढ़ लेती हूँ।
तुम्हें आदत है
दर्द को शब्दों में ढाल देने की,
इसीलिए लोग तुम्हारी
लिखावट पढ़कर कहते हैं–
"कितना गहरा लिखती हो,"
पर कोई यह नहीं पूछता
इतना गहरा
डूबकर कैसे लिखती हो।

तुम ज़्यादा बोलती हो,
पर उससे भी ज़्यादा सोचती हो,
हर बात को
दो बार जीती हो।
जो कहना होता है
वो दिल में रह जाता है,
और जो नहीं कहना होता,
वो आँखों से बह जाता है।
तुम चाहती हो
कोई बिना पूछे समझ ले,
बिना कहे ठहर जाए–
पर जब कोई पास आता है,
तो क्यों कहती हो, "रहने दो"?
क्या डर लगता है,
कि अगर किसी ने
पूरी तरह पढ़ लिया,
तो कहीं
अधूरा छोड़ न दे?
तुम हर रोज़
ख़ुद से वादा करती हो–
"आज नहीं बिखरूँगी,"
और हर रात
उसी वादे से थककर
सो जाती हो।

फिर भी अगली सुबह
फिर उठ खड़ी होती हो,
मानो हारना
तुम्हारी फ़ितरत में
कभी था ही नहीं।
सच बताओ, आरज़ू–
इतना संभल-संभल कर
चलने के बाद भी
क्या तुम्हें गिरने का डर है?
या बस इतना-सा ख़ौफ़,
कि अगर गिरीं,
तो खिड़की पर
फिर कोई चिड़िया आकर
यह नहीं पूछेगी
कि "ठीक हो?"
या बस–
"लिख रही हो?"

DEPARTMENTAL ACTIVITIES

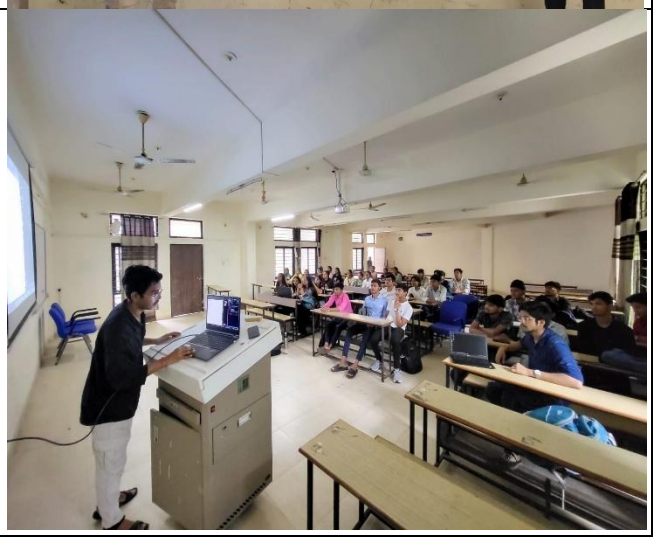
- **Alumni Meet and Cultural Event**
  - The Alumni Meet and Cultural Event – September 2025 is a combined offline and online celebration featuring traditional rituals and cultural activities, bringing together alumni, students, and faculty on 26th September 2025. The event is coordinated by Prof C M Kapadiya.



- **Expert Talk on GD skill**
  - The IT Department, GEC Gandhinagar successfully organized a GD Skills Workshop for Gen Z students on 29th July 2025 to enhance their communication and group discussion skills. The workshop was conducted with active participation and proved beneficial in improving students' professional competencies.

- **Guru Purnima celebration**
  - Students of the IT Engineering Department organized and celebrated Gurupurnima with enthusiasm to honour the dedication, hardwork, and invaluable contribution of its faculty members in shaping future engineers on 10th july 2025.

- **Introduction to Web-Dev (Student-Led Workshop)**
    - On August 26, 2025, the department hosted an "Introduction to Web-Dev" workshop that stood out as a peer-to-peer learning initiative. The session was organized by 5th-semester students, demonstrating leadership and technical coordination within the student body. The workshop was led by Aditya Makwana, a student from within the college, who shared his expertise in web programming with his peers. This event saw the highest engagement of the series, with 66 students attending to learn the fundamentals of modern web development.



- **Build With FlutterFlow**
    - On August 5, 2025, the department hosted a technical workshop titled "Build With FlutterFlow." Facilitated by expert Kathank Raithatha, this hands-on session provided 50 students with insights into low-code app development. The event was managed by the coordinating team of Prof. S. B. Patel and Prof. H. B. Chauhan.

- **eSparkBiz Pre-Placement Talk and Aptitude Assessment Session**
    - On 23rd July 2025, our institution hosted a Pre-Placement Talk and Aptitude Assessment Round conducted by eSparkBiz Technologies, a reputed software development company specializing in digital solutions, mobile apps, and custom web applications.
    - The session witnessed enthusiastic participation from final-year students, who actively engaged in learning about the company's culture, hiring process, and exciting career opportunities. The representatives from eSparkBiz shared insightful information about industry expectations, current tech trends, and the work environment at their organization.
    - The event also included an aptitude test to evaluate students' problem-solving, logical reasoning, and analytical skills. The classroom was filled with motivated students eager to perform and secure a position in the company.

- **Vivansh Infotech – Pre-Placement Talk and Aptitude Assessment Session**
  - On 18th July 2025, our institution organized a Pre-Placement Talk and Aptitude Assessment Session conducted by Vivansh Infotech, a growing IT solutions company. The session aimed to familiarize students with industry expectations, recruitment procedures, and professional career paths.
  - The event witnessed active participation from final-year students, who enthusiastically engaged in learning about the company culture, job roles, and skill requirements. The representatives provided valuable insights into software development practices, technical competencies, and corporate work environments.
  - An aptitude assessment was conducted to evaluate students' logical reasoning, analytical thinking, and problem-solving abilities. The atmosphere remained focused and disciplined as students demonstrated their dedication and competence.

- **TatvaSoft – Pre-Placement Talk and Aptitude Assessment Session**
  - On 31st July 2025, TatvaSoft, a global IT services and consulting company, conducted a Pre-Placement Talk and Aptitude Assessment Session at our institution.
  - The representatives introduced students to the company's corporate culture, technology-driven environment, and career growth opportunities. Students actively participated and gained valuable exposure to real-world industry expectations.
  - An aptitude test was organized to assess logical reasoning, analytical capabilities, and problem-solving efficiency. The students showed great enthusiasm and dedication throughout the assessment process.

- **Medkart Pharmacy – Pre-Placement Talk and Aptitude Assessment Session**
  - On 25th July 2025, Medkart Pharmacy, a fast-growing healthcare and e-commerce organization, conducted a Pre-Placement Talk and Aptitude Assessment Session.
  - The company representatives provided insights into healthcare technology, pharmaceutical e-commerce platforms, and business operations. Students gained valuable exposure to professional working standards and industry expectations.
  - An interactive session followed by an aptitude assessment evaluated students' reasoning skills, analytical ability, and problem-solving competence. The event created strong enthusiasm among students regarding career prospects in healthcare technology.

- **LaNet – Pre-Placement Talk and Aptitude Assessment Session**
  - On 29th July 2025, LaNet, a leading IT services and digital transformation company, conducted a Pre-Placement Talk and Aptitude Assessment Session.
  - The session offered students a detailed understanding of the company's vision, technical domains, recruitment strategy, and career opportunities. Students actively participated and gained practical insights into professional expectations.
  - The aptitude assessment focused on evaluating analytical thinking, reasoning abilities, and technical aptitude. Students showed discipline and commitment throughout the evaluation process.

- **DeltaX – Pre-Placement Talk and Aptitude Assessment Session**
  - On 29th July 2025, DeltaX, a performance marketing and digital analytics company, conducted a Pre-Placement Talk and Aptitude Assessment Session at our institution.
  - The session familiarized students with the dynamic world of digital marketing, analytics, and performance-driven strategies. Company representatives provided valuable guidance on industry expectations and career growth.

- **EnactOn Technologies – Aptitude Assessment Session**
  - On 25th August 2025, EnactOn Technologies conducted an Aptitude Assessment Session as part of their recruitment process at our institution.
  - The session aimed to assess students' analytical ability, reasoning skills, and technical aptitude. Students participated actively and demonstrated discipline, concentration, and commitment throughout the assessment.

- **Career Guidance Seminar by Placement Coordinators**
  - On 23rd December 2025, a Career Guidance Seminar was organized by the Placement Coordinators for students. The objective of the seminar was to guide students about career planning, higher studies, placement opportunities, and skill development.
  - During the session, placement coordinators shared valuable insights on industry expectations, resume building, interview preparation, and career pathways in various technical and non-technical domains. Students were encouraged to identify their strengths, set clear goals, and work consistently toward their professional development.
  - The seminar was highly informative and interactive, helping students gain clarity and confidence regarding their future career choices.

- **Intech Creative – Seminar / Workshop**
  - On 9th December 2025, a seminar/workshop was conducted by Intech Creative for students. The session aimed to provide insights into creative technologies, digital solutions, and current industry trends.
  - The speakers shared valuable knowledge about innovation, design thinking, and career opportunities in the creative and IT sectors. Students actively participated and gained practical understanding of real-world applications and professional expectations.

PLACEMENT ACHIEVEMENT

- **Placement Achievement Report – IT Batch 2026**
  - From July 2025 to 31st December 2025, a total of 26 students from the IT department were successfully placed in various reputed companies through campus recruitment drives. This achievement reflects the students' dedication, technical competence, and consistent efforts toward career development.
  - The continuous guidance of the placement cell and faculty members played a vital role in preparing students for recruitment processes, resulting in this significant placement milestone.

Tech Blogs

BLOG:1

"Quantum Computing: When Will It Become Real for Us?"

- Quantum computing is an emerging technology that uses the principles of quantum physics to perform calculations at extremely high speeds. Unlike traditional computers that use bits (0 or 1), quantum computers use qubits, which can exist in multiple states simultaneously. This allows them to solve complex problems much faster than conventional systems. Quantum computing has the potential to revolutionize fields such as cybersecurity, healthcare, finance, climate science, and artificial intelligence.
- In cybersecurity, it can break traditional encryption methods and also create highly secure communication systems. In healthcare, it can accelerate drug discovery and personalized medicine. Currently, leading companies like Google, IBM, Microsoft, and Amazon are investing heavily in quantum research. However, challenges such as high cost, complex engineering, and extreme temperature requirements still limit large-scale usage.

- Experts predict that quantum computing will become commercially viable between 2030 and 2035, with widespread public use expected after that. As the technology matures, it will open new career opportunities and significantly transform the digital world.

BLOG:2

“Metaverse 2.0: Why It’s Coming Back Stronger”

- Metaverse 2.0 represents the next generation of virtual digital environments that combine virtual reality (VR), augmented reality (AR), and artificial intelligence (AI). Unlike the first version, which focused mainly on gaming and social interaction, Metaverse 2.0 emphasizes real-world applications such as education, business, healthcare, and professional training.
- Earlier metaverse platforms failed due to high hardware costs, technical limitations, and lack of practical use cases. However, advancements in VR hardware, AI-powered avatars, and high-speed networks like 5G have revived interest. Today, virtual classrooms, corporate training simulations, digital healthcare therapies, and immersive shopping experiences are becoming popular applications.

- Major technology companies such as Meta, Microsoft, Apple, and Nvidia are investing heavily in metaverse development. Industry experts predict that the global metaverse market will exceed one trillion dollars by 2030. With expanding applications and improved technology, Metaverse 2.0 is expected to transform how people learn, work, and interact in the digital world.

BLOG:3

“Cybersecurity in the AI Era: New Threats & Smart Solutions”

- Cybersecurity has become more critical than ever in the age of artificial intelligence. As AI technology grows rapidly, cybercriminals are also using AI tools to launch more advanced and intelligent cyberattacks. Modern threats include AI-generated phishing emails, deepfake voice and video scams, automated hacking tools, and intelligent malware that can adapt to security systems. These attacks are becoming harder to detect, making traditional security methods less effective. As businesses and individuals increasingly depend on digital platforms, the risk of data breaches, identity theft, financial fraud, and privacy violations continues to rise.

- At the same time, AI is also transforming cybersecurity defense. AI-powered security systems can analyze huge volumes of data in real time, detect unusual patterns, predict cyber threats, and automatically respond to attacks. Technologies such as machine learning-based intrusion detection systems, behavioral analysis tools, and biometric authentication are strengthening digital security. Organizations are adopting AI-driven security solutions to protect cloud platforms, mobile devices, financial transactions, and personal data. In the coming years, cybersecurity experts, ethical hackers, and AI security engineers will be among the most in-demand professionals. Overall, cybersecurity in the AI era is a continuous battle between smart attackers and smarter defenders, making digital safety a top global priority.

Head Of Department

Prof. K. D. Anadkat

HOD, IT Department

Newsletter Co-ordinator

Prof. S. B. Patel

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IT – SEM 3

“Thank You”