INNOVATE IT

THE NEWSLETTER
January-June 2025 EDITION

INFORMATION TECHNOLOGY

DEPARTMENT



GEC Modasa Newsletter | Jan-June 2025 - Capturing milestones, student achievements, technical events, and campus developments from the past six months.

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Government Engineering College Modasa



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Government Engineering College, Modasa was established in 1984 under the Commissionerate of Technical Education, Gujarat State, Gandhinagar, with the noble vision of strengthening technical education and supporting the industrial growth of North Gujarat. Situated in the Aravalli district, the college caters to the educational needs of students from nearby industrially progressive regions including Aravalli, Panchmahal, Sabarkantha, Banaskantha, Mehsana, and Patan districts.

The institute is affiliated with Gujarat Technological University (GTU), Ahmedabad, and is approved by the All India Council for Technical Education (AICTE), New Delhi. Over the years, GEC Modasa has established itself as a leading center of technical education, producing engineers who are well-recognized across industries, academia, research, and higher studies both within India and abroad.

Academic Excellence

GEC Modasa offers undergraduate and postgraduate programs in various engineering disciplines, with a strong emphasis on Computer Engineering, Civil Engineering, Electrical Engineering, Mechanical Engineering, and Electronics & Communication Engineering. The college curriculum blends theoretical learning with practical exposure, ensuring that students are well-prepared for the demands of the modern workforce.

The college is enriched with experienced and dedicated faculty members who bring deep expertise in their respective domains. Faculty members actively engage in research, projects, publications, consultancy, and training programs, thereby enriching the academic environment and creating opportunities for students to explore beyond classroom learning.

Message From Our Principal

Dear Faculty, Staff & Students,

It gives me immense pleasure to present the latest edition of our E-Newsletter, showcasing the vibrant academic, technical, and cultural endeavors carried out by the students and faculty of Government Engineering College, Modasa, for the period January 2025 to July 2025.



GEC Modasa is committed to the holistic development of its students by offering diverse opportunities for academic enrichment, expert lectures, industrial visits, skill-building workshops, and robust placement drives. The institute actively fosters a culture of innovation and entrepreneurship by supporting the Startup Policy and creating an ecosystem that encourages new ideas and ventures.

Our students and faculty are actively involved in initiatives that align with national missions such as Aatma Nirbhar Bharat, working closely with GTU and the Education Department to drive innovation and sustainable development. The institute is proud to be part of these collaborative efforts that contribute to the nation's progress.

At GEC Modasa, we believe in nurturing not just engineers, but responsible citizens and innovative thinkers. This newsletter is a reflection of the hard work, dedication, and creativity exhibited by our academic community. From groundbreaking projects and technical workshops to social initiatives and cultural events, our students and faculty have continued to push boundaries and uphold the institution's spirit of excellence.

I congratulate all contributors and editorial members for their efforts in compiling this newsletter. Let it serve as an inspiration to all, and a record of our continued journey toward academic excellence and holistic development.

Let us keep striving forward with dedication and a commitment to continuous learning.

- DR. JEETENDRA A. VADHER
Principal of GEC, MODASA

Message From Our HEAD Of Department

The B.E. Information Technology program is designed to provide students with a strong foundation in information systems, software development, networking, and data management. The curriculum integrates core principles of computing with emerging technologies such as cloud computing, cybersecurity, artificial intelligence, and data science. Our aim is to ensure that students are well-prepared to meet industry demands and contribute effectively to the ever-evolving IT landscape.



Our mission is to provide the right balance of theoretical knowledge and practical skills that empower students to design, develop, and manage information systems effectively. The department emphasizes building strong problem-solving abilities, engineering fundamentals, and professional skills that are crucial for success in today's fast-changing IT industry.

Since its establishment in 2004, the Department of Information Technology has consistently progressed in academics, research, and placements. This growth is fueled by our dedicated faculty members, who are committed to delivering high-quality education and guiding students toward innovation and excellence. Their expertise in areas such as Cybersecurity, Data Science, Artificial Intelligence, Cloud Computing, and Web Technologies significantly enriches our programs.

We are dedicated to nurturing creativity, critical thinking, and technical competence to shape our students into responsible IT professionals and future leaders of the digital era.

- DR. SAFVAN A. VAHORA

Head of Information Technology Deptpartment

About Government Engineering College, Modasa



Government Engineering College, Modasa (GECM), established in 1984 under the Directorate of Technical Education, Gujarat State, Gandhinagar, has been a pioneering institute in North Gujarat. With a vision to expand technical education and foster industrial growth in the region, the institute has played a significant role in shaping skilled engineers and innovators. Initially affiliated with Hemchandracharya North Gujarat University (HNGU), Patan (1984–2007), the institute has been affiliated with Gujarat Technological University (GTU), Ahmedabad since 2008 and is recognized by the All India Council for Technical Education (AICTE), New Delhi.

Starting with just two undergraduate programs, each with an intake of 60 students, GECM has now expanded its academic portfolio to seven undergraduate and two postgraduate courses. Every department is equipped with modern laboratories, advanced computer centers, and highly qualified faculty to ensure quality education and research opportunities.

The institute is located approximately 100 km north of Ahmedabad on the Modasa-Shamlaji State Highway, on the scenic outskirts of Modasa town—the district headquarters of Aravalli. The campus, spread across 112 acres of lush greenery, offers a serene learning environment with state-of-the-art infrastructure and natural aesthetics.

Over the years, GECM has evolved into a hub of innovation, research, and industry collaboration, producing graduates who excel not only in academics but also in leadership and entrepreneurship. The college regularly organizes workshops, industrial visits, hackathons, and technical events to nurture talent and keep students industry-ready.

About Information Technology Department



The Information Technology Department has been successfully running since 2004 and has continuously evolved to meet the dynamic needs of the IT industry. Over the years, the department has established state-of-the-art laboratories in areas such as Networking & Security, Database Management Systems, Web Technologies, Cloud Computing, and Software Engineering. These labs are designed to provide students with hands-on exposure to real-time systems and industry-relevant tools.

High-speed Internet access is available to students, ensuring they stay updated with the latest technologies. Under AICTE and other initiatives, the department is consistently upgrading its digital infrastructure to enhance teaching and learning experiences.

The department houses more than 150 advanced computer systems with LAN connectivity, multimedia software, and Internet facilities. It is also equipped with modern servers and e-learning platforms, enabling seamless online content delivery and innovative teaching methodologies.

Since 2010, the department has also offered a Postgraduate course in Information Technology, producing skilled professionals who excel in both academic research and industrial applications.

The Information Technology Department, along with the Computer Engineering Department, operates from a newly constructed, well-furnished building with modern amenities. The key strength of the department lies in its highly qualified and dedicated faculty members, who ensure quality education, research, and mentorship for holistic student development.

Faculty of Information Technology Department

DR. SAFVAN A. VAHORA

With 14 years of academic experience, He is an Associate Professor and Head. His interests include Computer Vision, Image Processing, and Machine Learning, inspiring students through innovative teaching and leadership.





DR. MAHENDRA N. PATEL

With 16 years of academic experience, he is an Associate Professor specializing in Data Mining and Machine Learning, inspiring students through his expertise and guidance.

DR. HIRENKUMAR R. PATEL

With over 15 years of experience, he is an Assistant Professor specializing in Web Development, Mobile Application Development, Cloud Computing, and Data Mining, motivating students through his expertise.





PROF. VIMAL A. RATHOD

With nearly 18 years of experience, he is an Assistant Professor specializing in Programming Languages and Web Development, encouraging students to excel with his guidance.

DR. SAMEERSINGH A. CHAUHAN

With 22 years of academic experience, he is an Assistant Professor specializing in Cloud Computing, guiding students with expertise and dedication.



Faculty of Information Technology Department



DR. NILESH N. MALTARE

With 14 years of academic experience, he is an Assistant Professor specializing in Software Engineering, Database Management Systems, and Computer Networks, guiding students with expertise.

PROF. AVINASH D. CHAUDHRI

With 11 years of combined experience in Software Development and Teaching, he is an Assistant Professor specializing in Java, Python, Machine Learning, and Computer Vision, guiding students with expertise.





DR. PRASHANT S. MODI

With 19.5 years of academic experience, he is an Assistant Professor specializing in Machine Learning, Computer Architecture, Cryptography, and Network Security, guiding students with expertise.

PROF. ANIL A. PRAJAPATI

With 12 years of academic experience, he is an Assistant Professor specializing in Cloud Computing, guiding students with expertise and practical knowledge.



Vision & mission of GECM



Vision of GECM

 To be a leading institution fostering Academic Excellence, Research, Innovation, and Entrepreneurial Spirit to produce competent technocrats committed to the service of the Nation.

Mission of GECM

 To be a student-centric institute promoting experiential, innovative, and lifelong learning skills while addressing societal challenges.



- To create a conducive ecosystem for advanced research, innovation, and extension activities.
- To instill entrepreneurial attitude, ethics, and values among learners.
- To collaborate with industries and institutions to strengthen symbiotic relations.
- To mentor and guide aspiring institutions to unlock their potential, contributing to nation-building

Vision & Mission of Information technology Department

Vision of Department



To become prominent a department producing professionals competent with innovation research, and entrepreneurial skills, inculcating moral values and societal concerns.

Mission of Department

- To create globally competent students having ability to design, develop and test world class software, keeping pace with the latest technological developments.
- Create facilities and expertise in advanced computer technology thereby promote research.



- Enhance Industry Institute Interaction programme to get acquainted with corporate culture.
- Induce moral, ethical values and spirit of social commitment.

PEOs & PSOs

Program Educational Outcomes (PEO)

Graduates will:-

- PEO1 Be prepared to gain employment as a successful IT professional and/or pursue higher studies.
- PEO2 Be capable to adapt advanced state of the art Information technology for professional excellence and Research and be a lifelong learner.
- PEO3 Work productively exhibiting ethical qualities for the betterment of society.
- PEO4 possess leadership and entrepreneurial qualities, work harmoniously as a team member with effective communication skills.

Program Specific Outcomes (PSO)

Information Technology Graduate will be able to:-

- PSO1 Effectively integrate IT-based solutions into the user environment.
- PSO2 -Possess professional skill set of software design process using open source technologies.
- PSO3 -Apply concepts of core areas of Information Technology- Data Structures, Database Management Systems, Operating Systems, Computer Network and Software Engineering to provide innovative solution.

Infrastructure Details

Information Technology Department, have Laboratories, Seminar Room, Server Room, and Classrooms: Laboratories Equipped with 150+ computers featuring modern configurations. Specialized labs for: Programming (C, C++, Java, Python) Artificial Intelligence & Machine Learning Data Science & IoT Computer Networks & Cybersecurity Database Management Systems All labs have highspeed internet, LCD projectors, and UPS backup. Seminar Room Seating capacity of 100+. Equipped with projector, sound system, and mic setup. Used for expert talks, student presentations, workshops, and departmental events. Server Room Houses centralized servers, routers, and networking equipment. Supports lab management, internet services, and file sharing. Secure and environment. Classrooms Well-furnished temperature-controlled and ventilated. Equipped with whiteboards, LCD projectors, and audio systems Used for theory lectures, interactive sessions, and blended learning









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

Laboratories

8212 Programming Lab

project lab has The number computers. This lab is dedicatedly for project and design engineering subject. Students can perform their project related work. Sufficient number of PC, laptop points and other required infrastructure is available in this lab.













8213 Programming Lab

The department having is programming lab for students where they can perform their experiments. This lab contains number Computers with Internet connection. This lab is dedicatedly used for subjects such as DBMS, OS, CG, CoS, SE, Compiler Design and Python.

8215 Programming Lab

The department having is programming lab for students where they can perform their experiments. This lab contains number Computers with Internet connection. This lab is dedicatedly used for hardware related subjects such as digital fundamentals, COA. CN. Blockchain and IoT.













8216 Programming Lab

The department is having Programming for Problem Solving lab for students where they can perform their PPS experiments. This lab contains number of Computers with Internet connection.

8217 Programming Lab

The department is having programming lab for students where they can perform their experiments. This lab contains number of Computers with Internet connection. This lab is dedicatedly used for software/hardware related subjects such as .Net, MCWC and cloud computing.







Server Room No.: 8103



The department maintains campus wide networking and INTERNET facility of institute. The INTERNET line is provided by NKN (National Knowledge Network) with speed up to 100 MBPS. Server room contains two high end servers, routers, Fortinet firewall system, switches and Wi-Fi controller.

Seminar Hall - 8219













The IT Department proudly owns a large Seminar Hall (Room No. 8219) with modern facilities including Smart TV, air-conditioning, and high-speed Wi-Fi. This hall is the central place for hosting expert talks, seminars, workshops, and departmental events. With its comfortable seating and digital setup, it provides students and faculty a perfect environment to share knowledge, showcase ideas, and participate in various academic as well as cultural activities.

Class Rooms

Class Room No. 8211

Classroom 8211 is a spacious, wellventilated lecture hall designed to accommodate large batches students. The room is equipped with comfortable seating and wide desks, providing an ideal environment for interactive teaching and group discussions. Natural lighting through large windows and proper airflow ensures a conducive atmosphere for learning. This classroom is often used for core subject lectures, seminars, and departmental interactions.













Class Room No. 8209

Classroom 8209 is а modern, medium-sized classroom that caters to smaller student groups. With neatly arranged desks and chairs, it encourages focused learning and effective teacher-student engagement. The room is well-lit, airy, and designed to maintain a disciplined collaborative vet environment. It is frequently utilized tutorial sessions, project discussions, and elective courses.

Class Room No. 8206

Classroom 8206 is a bright and airy that comfortably lecture space accommodates a large number of students. With wide windows allowing light ample natural and good ventilation, the classroom provides an and refreshing learning engaging environment. It is equipped with spacious desks and seating arrangements that support both traditional lectures and interactive sessions. The room is regularly used for core subject classes, departmental meetings, and academic discussions.













Class Room No. 8207

Classroom 8207 is a well-structured teaching space designed for focused and interactive learning. The arrangement of benches and the presence of a clear blackboard make for highly suitable lectures. presentations. discussions. and Adequate lighting and ventilation contribute to a positive academic atmosphere. This classroom frequently used for tutorials, group activities, and interactive sessions between faculty and students.

Club At Government Engineering College, Modasa

Technopreneur Club



The Technopreneur Club at Government Engineering College Modasa is a vibrant student-led organization run by students of the Computer Engineering and Information Technology departments. Established to develop both technical and non-technical skills, the club serves as a platform where students can explore and enhance their knowledge through a wide array of activities, including workshops, competitions, and interactive sessions. The club's primary mission is to foster a collaborative and inclusive environment that encourages peer learning, creativity, and the development of essential soft skills. By participating in various events, students are given the opportunity to learn from each other, grow together, and prepare themselves for the challenges of the professional world. With a clear vision to ensure that students become innovative and successful members of society, the Technopreneur Club operates under the guiding motto: "For the students, to the students, by the students", emphasizing its commitment to student-driven growth and development.



https://www.gecmodasa.ac.in/Clubs/clubs.php?type=Technik



@technopreneurclub



@the._.technopreneur

Departmental Activities of Technopreneur Club

Swarajya Jashn 2K25

The Technopreneur Club celebrated Swarajya Jashan 2K25 on 24th January, blending cultural pride with a modern tech touch through engaging activities performances. inspiring The celebrations continued on 26th vibrant January with a Pre-Republic Day event, showcasing patriotic displays and innovative ideas. fostered Both events creativity, unity, and national pride, leaving participants inspired and motivated.













CONTRACTOR OF THE PARTY OF THE







Code Fusion

The Technopreneur Club organized Code Fusion 2K25 on 14th February, featuring two major competitions -Bug Quest and Mind Maze. With the enthusiastic participation of over 250 students, the event tested coding abilities, logical reasoning, and problem-solving skills. Designed simulate real-world technical to interview challenges, it provided a blend perfect of learning, competition, and innovation, leaving participants with enriching an experience.

Secure Minds

The Technopreneur Club organized Secure Minds on 28th February at LRC the building with 260 participants. The event focused on mental health, cyber fraud awareness. and harassment prevention, featuring short films, expert talks, and stress-relieving activities. It aimed to spread online awareness on safety, counseling support, and personal well-being, fostering a safer and informed more campus environment.





















Sailing The Sea of C

The Technopreneur Club organized a 3-day C Language Workshop from 15th to 17th April. The workshop covered fundamentals to advanced concepts of C programming.

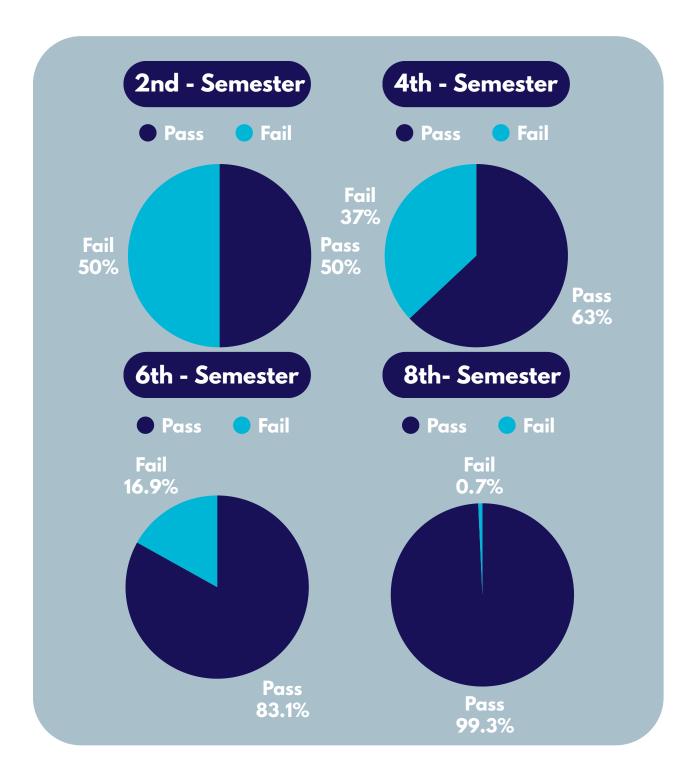
Topics included flowcharts, algorithm design, and structured coding. Participants gained valuable hands-on experience in coding. It helped build a strong foundation and problem-solving skills. Interactive sessions made learning engaging and effective.



Result Analysis:-



B.E Result for Winter-2025



Placement Details



In 2025, Number of Students from IT Department are placed in various MNCs likewise E Infochips, Cybercom, Spellenx, Silver touch technologies, Espark etc.

Highest Package 4 LPA Average Package 3.5 LPA

Companies visited campus this year...

























Faculty's Achievements

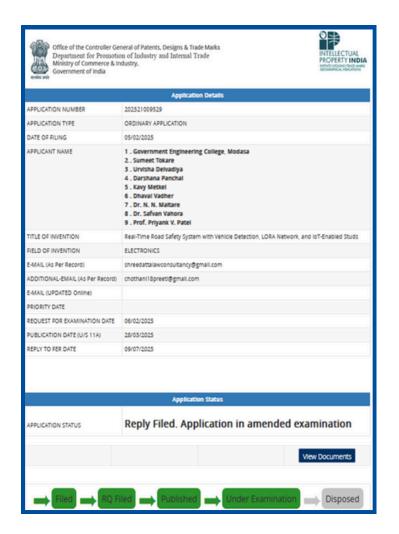


DR. NILESH N. MALTARE

Prof. N. N. Maltare and Prof. Safvan Vahora from Information Technology Department, along with Prof. P. V. Patel from Electronics and Communication Engineering Department, and other contributors, published an Indian Patent titled "Real-Time Road Safety System with Vehicle Detection, LORA Network, and IoT-Enabled Studs". Patent Application No.: 202521009529.



DR. SAFVAN A. VAHORA



Faculty's Research & Publication

DR. SAFVAN A. VAHORA

Prof. Safvan Vahora has delivered an expert talk on "Deep Learning and Neural Networks" on 5th March 2025 during a One-Week Faculty Development Program on "Emerging Trends in Machine Learning" organized by the Faculty of Computer Applications, Monark University, held from 3rd March 2025 to 8th March 2025.



PROF. VIMAL A. RATHOD

Prof. Vimal Rathod has delivered an expert talk on "Sailing the Sea of C" during a Workshop on C Programming organized by the Technopreneur Club at Government Engineering College, Modasa.



DR. NILESH N. MALTARE

Prof. Nilesh Maltare, Prof. Viral Patel, and Prof. Upendra Bhoi have published a research paper on "An Outlier Detection Framework for Air Quality Index Prediction Using Linear and Ensemble Models" in Decision Analytics Journal (ISSN: 2772-6622), Volume 14, pp. 1–13, published in March 2025



Faculty's Participation.

Sr No	Faculty Name	Training/Program	Organization	Duratio n
1	Dr. S. A. Vahora	ATAL FDP on Next Gen in AI/ML and IoT	V. V. P. Engineering College, Rajkot	06/01/202 5 to 11/01/2025
2	Dr. P. S. Modi	ATAL FDP on Next Gen in AI/ML and IoT	V. V. P. Engineering College, Rajkot	06/01/202 5 to 11/01/2025
3	Dr. N. N. Maltare	Industrial Training	e-Infochips - An Arrow Company	09/06/202 5 to 27/06/2025
4	Dr. H. R. Patel	FDP on Leadership and Team Effectiveness	IIT Madras	20/01/2025 to 11/04/2025
5	Dr. H. R. Patel	FDP on Yoga and Positive Psychology	IIT Bombay	17/02/2025 to 11/04/2025
6	Dr. H. R. Patel	ATAL FDP on Next Gen in AI/ML and IoT	V. V. P. Engineering College, Rajkot	06/01/202 5 to 11/01/2025

Student's Achievement & Article



BLOCKCHAIN TECHNOLOGY VOCATIONAL COURSE FOR 40 HR

Blockchain Technology Vocational Course By RUSA(Rashtriya Uchchatar Shiksha Abhiyan) Component 12.0 GOI(Government of India)In Associated With BSE(Bombay Stock Exchange) Approved by Knowledge Consortium of Gujarat, Department of Education

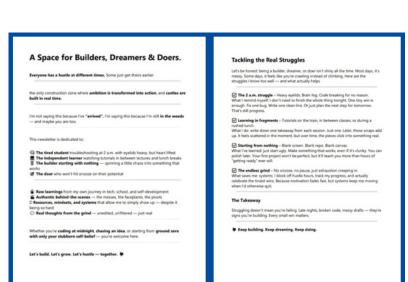
SOJITRA DARSHAN PARSOTAMBAI

En No. - 220160116129



A SPACE FOR BUILDERS, DREAME & DOERS

A space for builders, dreamers, and doers. Not a highlight reel - just the real grind: late nights, messy starts, small wins. I'm not at the finish line; I'm still figuring it out too. If you're learning, building, or just stubbornly showing up - you're in the right place.





DOBARIYA MEET ASHOKBHAI

En no. - 230160116022



Student's Creativity

PANCHAL PARTH KETANKUMAR

En No. - 230160116022 Semester - 5th Creativity - Drawing









MAHESHWARI MUSKAN RAJESHBHAI

En no. - 230160116022 semester - 5th Creativity - Drawing

Industrial Visit

Tops Technologies, Ahmedabad









An industry visit to Tops Technologies, Ahmedabad was organized for the 4th semester students of Computer Engineering and Information Technology on 5th April, 2025. A total of 70 students participated in the visit.

The students gained valuable insights into the functioning of an IT company and learned about industry expectations from freshers aspiring to enter the IT field.

The visit was successfully coordinated by Prof. Anil Prajapati, Prof. Nilesh Goriya, and Prof. Minal Chauhan.

Newsletter Faculty Coordinators



DR. SAFVAN A. VAHORA

 Designation: Associate Professor and Head of InformationTechnology Department

Qualification : Ph.D.

• Email: safvan.vahora@gecmodasa.ac.in



PROF. VIMAL A. RATHOD

• Designation : Assistant Professor

 Qualification: Master of Engineering in Information Technology(MEIT)

• Email: vimal.rathod@gecmodasa.ac.in

Newsletter Editors



PANCHAL TANMAY H.

• Department :- Information Technology

• Semester: 5th

Enrollment No.: - 230160116058



DAVDA BHAVYA H.

Department :- Information Technology

• Semester: 5th

Enrollment No. :- 2401631116005