

12th Issue of
NEWSLETTER

July - December
2025 EDITION

COMPUTER ENGINEERING DEPARTMENT



Presenting 12th issue of half yearly departmental **NEWSLETTER** that consists of events, achievements, moments and much more...

**Published by
Computer Engineering Department**

Government Engineering College, Gandhinagar, Sector - 28



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The Government Engineering College, Gandhinagar (GECG) was established in 2004 to give higher education in engineering and technology. The institute is recognized by the All-India Council of Technical Education (AICTE), New Delhi, and the Institute of Engineers (India). 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 Sec-28, near GEB, inaugurated by Smt. Aanandiben Patel, Minister for Higher and Technical Education. It is spread over 33 acres (130,000 m²) of land.

Principal's Message



Dr. Sweta Dave

Principal GECG

Dear faculty, staff & students,

" To those who see with loving eyes, life is beautiful. To those who speak with tender voices, life is peaceful. To those who help with gentle hands, life is full. And to those who care with compassionate hearts, life is good beyond all measure! "

I Dr. Sweta P. Dave as the Principal of the prestigious educational organization, Government Engineering college of Gandhinagar, with a compassionate heart Invites you to have an Initial peak of our organization's vision & values. Government Engineering college Gandhinagar primarily stands to nurture the shelved potential hidden in the young talent. We intend to provide a platform to the students to let out their creativity and channelize their knowledge and young inspirational energy.

At GEC Gandhinagar, the joyful experience of academics and the energetic bursts of co-curricular activities Integrate to create an all-round experience for fellow students and attendees. Our highly qualified faculties and management makes sure our fellow students become capable to stand out of the competition in the outside world.

GEC Gandhinagar brings a holistic academic as well as a practical approach for the students to become compatible and knowledgeable to the market needs. And we believe In this statement a lot, our faculties are well qualified and trained to deliver the knowledge in a playful form and not letting students just to mug up.

At last, I want to convey that we focus on the overall development of our students. We also look after the staff members and the college resources to provide students with the highest quality of academics value. I will heartily invite you to join our prestigious organization and become part of our family.

H.O.D.'s Message



Dr. Dhaval Parikh
HOD, CE Department

Dear Faculty and students,

The Department of Computer Engineering, established in 2004, has recorded a consistent improvement in its academic, research, and placement performance till now. I am elated to tell you that the department stands on the strength of experienced and well-qualified faculty who are very dedicated to teaching and also involved in the up-gradation of knowledge. Their research experience will help to cultivate the future of our students.

The B.E. Computer engineering program includes computer operations on different languages, data generation, collection and utilization of information. The course imparts all the basics as well as the latest knowledge pertaining to the rapidly developing field of computers. The course is designed to keep students at pace with the practical field. The mission of the department is to produce and impart theory, principles, practice, and know-importance of computing in the information age. This is required for the critical analysis, design, evolution, and improvement of the computing system in the context of computers and industry services. To provide students with a strong foundation in the mathematical, scientific, and engineering fundamentals necessary to formulate, solve and analyze engineering problems and to prepare them for graduate studies.

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. Our College is Approved by AICTE.

The College is administrated by Directorate of Technical Education, Gujarat State, Gandhinagar. GECGN is affiliated to **Gujarat Technological University**.

About Computer Department



Department of Computer Engineering 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 backbone of the course is educating knowledge of computer and its engineering. Almost all fields are computerized to have ease of handling the problems of designing, manufacturing, servicing, researching, marketing and accounting.

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The mission of the department is to produce and impart theory, principles, practice and know-importance of computing in the information age. This is required for the critical analysis, design, evolution and improvement of computing system in 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 college has well established computer labs which are facilitated with IBM, X series Xeon & dual processor Pentium servers, Compaq server and several hundred work stations connected in LAN & WAN.

Vision & Mission

Vision

- To achieve excellence for providing value based education in Computer Engineering through innovation, team work and ethical practices.

Mission

- To produce computer science and engineering graduates according to the needs of industry, government, society and scientific community.
- To develop partnership with industries, government agencies and R & D Organizations
- To motivate students/graduates to be entrepreneurs.
- To motivate students to participate in reputed conferences, workshops, symposiums, seminars and related technical activities.

PEOs & PSOs

Program Educational Outcomes (PEOs)

- To provide students with a strong foundation in the mathematical, scientific and engineering fundamentals necessary to formulate, solve and analyze engineering problems and to prepare them for graduate studies, R&D, consultancy and higher learning.
- To develop an ability to analyze the requirements of the software, understand the technical specifications, design and provide novel engineering solutions and efficient product designs.
- To provide exposure to emerging cutting edge technologies, adequate training & opportunities to work as teams on multidisciplinary projects with effective communication skills and leadership qualities.
- To prepare the students for a successful career and work with values & social concern bridging the digital divide and meeting the requirements of Indian and multinational companies.
- To promote student awareness on the life-long learning and to introduce them to professional ethics and codes of professional practice

PEOs & PSOs

Program Specific Outcomes (PSOs)

- By the completion of Computer Engineering program the student will have following Program specific outcomes.
- Design ,develop, test and evaluate computer based systems by applying standard software engineering practices and strategies in the area of algorithms, web design, data structure, and computer network
- Apply knowledge of ethical principles required to work in a team as well as to lead a team

Faculty, CE Department

Dr. Dhaval Parikh
HOD, CE Department



Dr. Harikrushna B Jethva
Associate Professor



Dr. Sanjaykumar Patel
Associate Professor



Dr. Vimal B Vaghela
Associate Professor



Faculty, CE Department

Prof. N.K.Prajapati
Assistant Professor



Dr. D.P.Khem
Assistant Professor



Prof. B.U.Gadhia
Assistant Professor



Faculty, CE Department



Prof. N.D. Shah
Assistant Professor



Prof. Nitin Raval
Assistant Professor



Dr. Hemani Shah
Assistant Professor



Dr. Nikhil Singh
Assistant Professor

Faculty, CE Department



Prof. Ashwin Prajapati

Assistant professor



Prof. Viral R. Patel

Assistant Professor



Dr. Mihir Mehta

Assistant Professor



Prof. Manisha Valera

Assistant Professor

Infrastructure Details



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. The labs are provided with well-maintained WLAN network, efficiently maintained by our networking genius Prof. Prashant Chaudhari.

Programming Lab



The laboratories are equipped with a number of desktop computers. The current software resources include open-source programming SDKs. The lab is used for the course subjects like C, C++ programming etc.



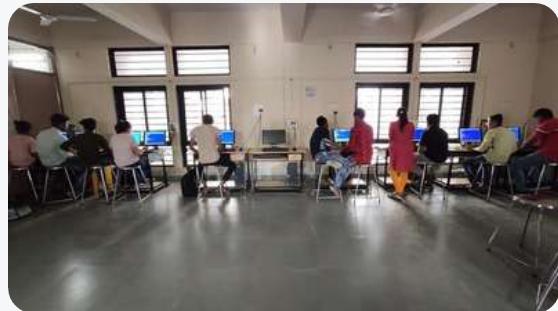
Database Lab



A database management system is computer software that provides a way to manage data. DBMS lab aims at practicing and achieving this aim by using various software's such as SQL, ORACLE, and MS – Access etc.

Application Development Lab

Website Development includes both front end and back end including database management and dynamic functionality of website as per the user actions. Although we work with various tools/languages to achieve this functionality such as - ASP.NET, PHP, JSP but we primarily focus on .NET



Network Lab



Networking is a key area in the field of computers that deals with the physical connectivity of computers which is monitored by a combination of special hardware and software. The course curriculum provides from the coverage of basics to advanced applications and services, while providing a platform for hands-on practical experience and soft-skills enhancement.



PG Research Lab



The ability of a computer or other machine to perform those activities that are normally thought to require intelligence. The branch of computer science concerned with the development of machines having this ability. Early AI projects, such as playing chess and solving mathematical problems, are now seen as trivial compared to visual pattern recognition, complex decision making, and the use of natural language



OOP Lab



The laboratory is equipped with a number of desktop computers. The current software resources include a number of Object Oriented Programming SDKs, Integrated Development Environment like Eclipse, EditPlus etc. and Object Oriented Software Engineering tools.



Clubs at GECG



Club IDE

A Community, By the Students, For the Students

It is an initiative by CE/IT Dept of GEC-Gn. This is community for the student and by the student. Here the students grow their knowledge in a peer-to-peer learning environment and build solutions for local businesses and their community.



<https://clubs.gecg28.ac.in/>



<https://instagram.com/theideclub?igshid=1x6stwsrt04q>



<https://www.linkedin.com/company/the-ide-club>



<https://discord.gg/vXNCpKXzET>



https://twitter.com/club_ide

GDSC GEC - Gandhinagar

Google Developers Student Club

Google Developer Student Clubs (GDSC) are community groups for college and university students interested in Google developer technologies. Students from all undergraduate or graduate programs with an interest in growing as a developer are welcome. By joining a GDSC, students grow their knowledge in a peer-to-peer learning environment and build solutions for local businesses and their communities.



<https://gdsc.community.dev/government-engineering-college-gandhinagar/>



https://instagram.com/gdsc_gecg



<https://www.linkedin.com/company/gdsc-gec-gandhinagar>



<https://youtu.be/snyOV3lqiM8>

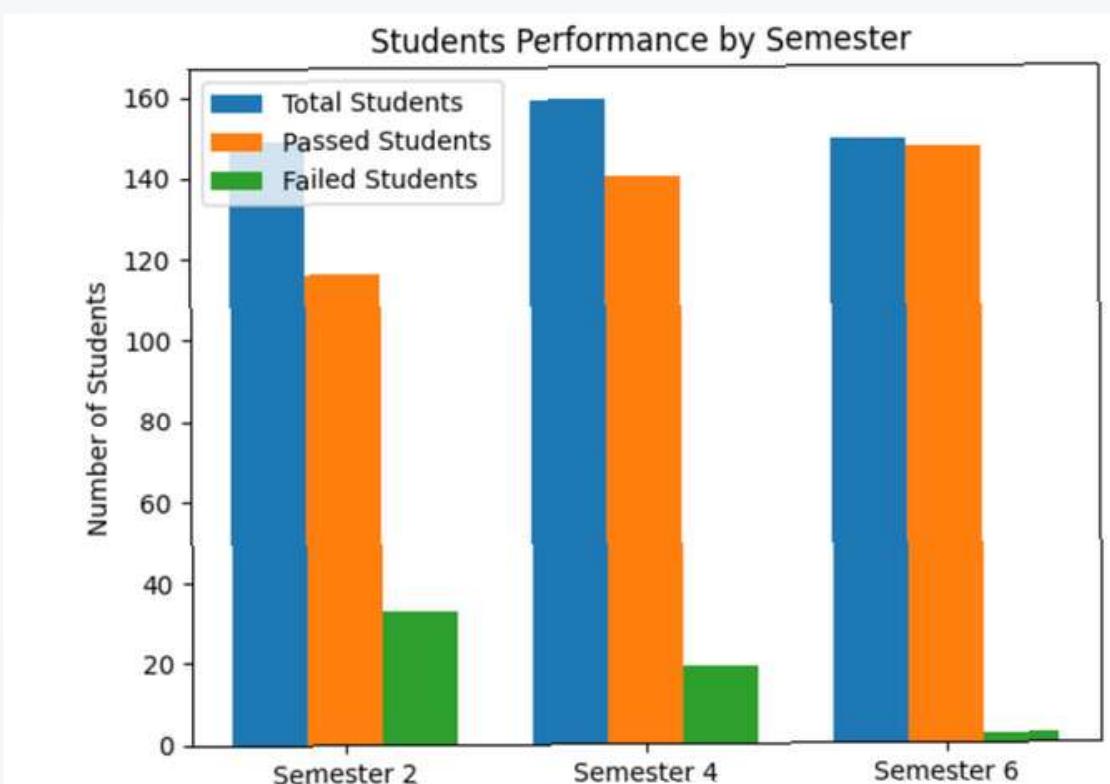


https://twitter.com/gdsc_gecg

Result Analysis



✓ B.E. Result for Summer - 2025



Placement



✓ In 2025, Students from CE Department are placed in various MNCs likewise E infochips, odoo, Meditab, Silver touch technologies, Tatvasoft etc.

Highest Package 5.4 LPA
Average Package 3 LPA

Companies visited campus this year...



Faculty's Research & Publication



- **Dr. Vimal B Vaghela**

Dr. Vimal B. Vaghela has published a research article titled “Detecting Biological Viruses Using Vibrational Analysis of TWCNTs” in the *Journal of Mechanical Science and Technology* (Springer), an esteemed international journal of The Korean Society of Mechanical Engineers. The paper appears in Volume 39, Issue 10 (pp. 6051-6066), with acceptance on 25 April 2024 and publication on 22 October 2024. The journal has an impact factor of 1.7 and is indexed in Scopus and SCI, reflecting the global relevance and quality of the research.

Faculty's Participation



- **Prof. Manisha Valera**

- Prof. Manisha Valera attended a 5-day STTP on “Mathematical Foundations in Machine Learning and Deep Learning” organized by NITTTR Extension Center, Ahmedabad in collaboration with L.D. College of Engineering. The training was conducted from 10–14 November 2025, enhancing her knowledge of core ML and DL mathematical concepts.



- **Prof. Viral R. Patel**

- Prof. Viral R. Patel attended a Faculty Development Program (FDP) on “Digital Forensic Investigation and Incident Response at GTU” organized by GTU. The FDP took place from 3rd March 2025 to 7th March 2025 (5 days) at GTU.

Faculty's Participation



- **Prof. Nrupesh Shah**

- Prof. Nrupesh Shah successfully completed a 5-day STTP on “Development and Research on Novel Engineering in Drones” held at IITRAM, Ahmedabad from 6–10 October 2025, focusing on emerging drone technologies and research methodologies.



- **Prof. Dhawal Khem**

- Prof. Dhawal Khem participated in a 5-day STTP on “Advances in AI/ML/IoT for Engineering Applications”, organized by NITTTR Extension Center, Ahmedabad at RCTI Campus. The program was held from 8–12 September 2025, providing insights into modern intelligent systems and IoT-driven engineering solutions.

Student's Achievement



Rudra Vasani

- Rudra Vasani successfully completed the Bhagavad-Gita Foundation Course (BGFC) organized by ISKCON, Ahmedabad. The course emphasized spiritual learning, value-based education, and personal development. Rudra's active participation reflects a strong commitment to holistic growth alongside academic pursuits.

Student's Creativity



VRAJ MANSUKHBHAI DUDHAT (Enrollment No. 250130107037)



Chaudhary Svetaben bhikhabhai (250130107019)



The Unforgettable Story of Linus Torvalds: The Man Who Rewired the Digital World

In the early 1990s, most students were struggling with assignments, exams, and figuring out life. Linus Torvalds, a 21-year-old computer science student from Finland, was doing something else entirely — quietly building the foundation of modern computing from his bedroom.

Torvalds didn't start with a grand vision. He wasn't trying to be a tech hero. He simply hated the limitations of the operating systems available to him, especially the expensive and closed-source ones dominating the industry. So instead of complaining, he built his own. That side project became Linux.

What made his contribution unforgettable wasn't just the creation of Linux. It was the decision that changed everything:

He made Linux open-source — free for anyone to use, modify, or improve.

That single move broke the monopoly mindset of the tech world. While big companies were guarding their software like secrets, Torvalds did the opposite. He trusted the global community. And that trust triggered one of the largest collaborative projects in human history.

Today, Linux isn't just "an operating system." It's the silent backbone of modern technology:

- Every Android phone runs on Linux.
- Most web servers — including Google, Facebook, Amazon — run Linux.
- Supercomputers? More than 95% use Linux.
- Cloud infrastructure and DevOps tools rely on Linux-based systems.
- Even space missions use Linux due to its reliability.

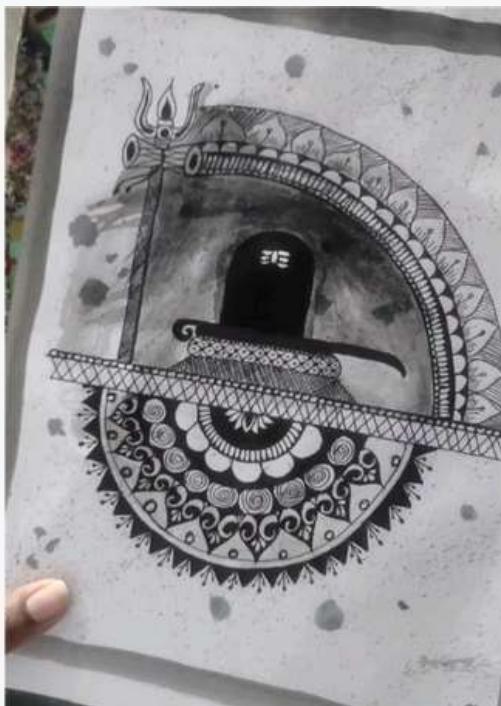
Student's Creativity



Pratham subhashchandra bhabhor (250130107009)



Arpita Pathar (230130107104)



Gamit Rutvi Dineshbhai (250130107043)



Pal Patel (230130107095)

Tech Updates

1. Nvidia struck a major strategic deal to license AI inference chip tech from Groq and onboard key executives, boosting its capabilities in real-time AI processing and chip innovation.

- Link: <https://www.reuters.com/business/nvidia-buy-ai-chip-startup-groq-about-20-billion-cnbc-reports-2025-12-24/> Reuters

2. ServiceNow announced its largest acquisition ever – buying Armis to strengthen its AI-driven cybersecurity offerings and protect enterprise digital infrastructure.

- Link: <https://tsttechnology.io/blog/latest-tech-news-and-updates>

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Tech Updates

3. At AWS re:Invent 2025, Amazon unveiled key updates across cloud infrastructure, AI services, and enterprise tools, setting direction for 2026 cloud strategies.

- Link: [Link: \[https://medium.com/@palashjain9276/the-future-is-now-todays-biggest-ai-tech-breakthroughs-july-1-2025-50d32cb4277d\]](https://medium.com/@palashjain9276/the-future-is-now-todays-biggest-ai-tech-breakthroughs-july-1-2025-50d32cb4277d)

4. Google announced new AI security capabilities to help organizations protect AI systems and manage vulnerabilities across entire cloud ecosystems.

- Link: [Link: \[https://dev.to/shiva_shanker_dec82951917/top-10-tech-news-that-changed-everything-this-month-july-2025-a-developers-perspective-3ka0\]](https://dev.to/shiva_shanker_dec82951917/top-10-tech-news-that-changed-everything-this-month-july-2025-a-developers-perspective-3ka0)

5. CoreWeave deployed next-gen Nvidia GPUs and pursued strategic AI platform acquisitions like OpenPipe and Monolith AI to grow its AI cloud services.

- Link: [Link: https://en.wikipedia.org/wiki/CoreWeave](https://en.wikipedia.org/wiki/CoreWeave)

Tech Updates



6. YouTube retired its classic Trending page, moving to AI-powered personalized charts that tailor recommended content by user interest rather than global views.

- Link: <https://medium.com/%40shivashanker7337/major-tech-breakthroughs-of-july-2025-ai-gets-smarter-but-also-more-complex-5968c89a8886c9>

7. Perplexity introduced Comet — an AI-enhanced web browser offering real-time summaries and source-verified search responses, challenging traditional browsing models.

- Link: <https://www.analyticsinsight.net/tech-news/the-biggest-news-stories-of-2025>

8. Ongoing constraints in DRAM and NAND markets have driven pricing up sharply as manufacturers prioritize AI infrastructure memory over consumer segments.

- Link:
https://en.wikipedia.org/wiki/2024%E2%80%932025_global_memory_supply_shortage

Tech Updates

9. A PwC survey shows 87% of organizations plan to increase cybersecurity spending, with AI and cloud security ranking as the highest investment priorities.

- Link: <https://www.pwc.in/press-releases/2025/ai-cloud-security-emerge-top-cybersecurity-investment-priority-companies-shifting-risk-landscape-pwc.html>

10. 2025 marked a shift from assistive AI to agentic AI systems that autonomously execute tasks, manage workflows, and integrate deeper into enterprise operations.

- Link: <https://ts2.tech/en/global-battery-tech-and-energy-storage-developments-june-july-2025/>

Events



Alumni meet



Events



Alumni meet



સરકારી ઇજનેરી કોલેજમાં ભૂતપૂર્વ વિદ્યાર્થી સંમેલન



સેક્ટર-૨૮ રિથત સરકારી ઇજનેરી કોલેજ ગાંધીનગર ખાતે અલગ અલગ વિભાગમાં ભૂતપૂર્વ વિદ્યાર્થી સંમેલનનું આયોજન કરવામાં આવ્યું. જે અંતર્ગત દરેક વિભાગના ભૂતપૂર્વ વિદ્યાર્થીઓ દ્વારા હાલ અભ્યાસ કરતા વિદ્યાર્થીઓને માર્ગદર્શન આપવામાં આવ્યું હતું. જેનો વિદ્યાર્થીઓ અને કોલેજના અધિકારી/કર્મચારી વર્ગ સાથે અંદર્ભિત ૫૦૦ કરતા પણ વધુ સ્ટેક હોલ્ડર્સે હણી મળીને લાભ લીધો હતો.

Alumni meet

- The Alumni Meet 2025, held on 26th November 2025 at GEC Gandhinagar, witnessed an overwhelming participation of around 500 attendees, including alumni, current students, faculty members, and staff from CE, EC, IT, IC, MET, and BM branches. The event created a vibrant atmosphere of nostalgia and togetherness as former students reunited with their peers and mentors, shared memories, and engaged in interactive sessions with current batches. The meet successfully strengthened the bond between the institute and its alumni community, reaffirming a shared commitment to growth, collaboration, and excellence.

Events

Alma Donate



**ALMA
DONATE**
AN AAG INITIATIVE . . .

★ BOOK DONATION DRIVE ★

"Let's transform the role of old books - Idle to Functional"

Donate books for the benefit of the student fraternity
and for those who require them



SHARE YOUR DETAILS



<https://forms.gle/x89VjnaRGdcd4PN7>

SHARING IS CARING

Coordinators

Dr. Rahul D. Mehta
Dr. Dhawal P. khem



Alumni Association (AAG)

Government Engineering College
Gandhinagar
alumni@gecg28.ac.in

Events

Alma Donate



Alma Donate

- The newly launched “**Alma Donate**” initiative at GEC Gandhinagar marks a meaningful step toward academic enrichment and community contribution. The activity invites alumni, students, faculty, and well-wishers to donate gently used technical books, non-technical books, and licensed digital resources to enhance the learning ecosystem and support GECGn students. Donated books will be available at the GECGn central library.
- The initiative proudly received its first contribution from Ms. Kusum Joshi, Ex-School Teacher, Mount Carmel High School, setting a graceful beginning to this noble culture of giving back. GECGn Alumni Association recognised the contribution with a certificate as a token of gratitude.

Head of the Department



Dr. Dhaval Parikh
Head of C.E. Department

Newsletter Coordinator

Prof. Manisha Valera
Assistant Professor, Computer Engineering



Newsletter Editors



Dev Kanakhara

CE Semester 05
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Thank
You