

GEC PATAN NEWSLETTER

WWW.GECPATAN.AC.IN



JAN-MAR 2025



Institute Glimpses

Government Engineering College, Patan, also known as G.E.C.P., is situated in the scenic village of Katpur, in Patan city. Established in 2004 with the aim of imparting quality higher education in various fields of engineering, it has seen unprecedented growth. It is affiliated with Gujarat Technological University and is administered by the Directorate of Technical Education, Government of Gujarat.

प्रज्ञानम्

The NEWSLETTER Series
of Government
Engineering College
Patan.



Dr. B. J. SHAH
PRINCIPAL, GEC PATAN



FROM PRINCIPAL'S DESK

I am delighted to welcome you all to the Government Engineering College Patan and I hope to convey the passion and enthusiasm that both staff and students bring to represent our college having a great tradition of developing high technical academic excellence and overall personal growth of the students. The main motive of technical education is to enrich our students to develop a ability to reason out facts and this is achieved by giving them great scholarly

climate, best in class infrastructure, well equipped laboratories, and committed and highly qualified faculty members with many years of educating and modern experience creative and field oriented teaching-learning practices along with other developmental activities. GECP always navigating the intricate athwart ocean of science and engineering via the power of the human mind, body, and soul. Management, faculty, and staff strive to inculcate students and self-realize the harmony of human life and nature through applications of science, engineering, and technology. As this is precisely our long-term goal. It is what motivates the work of everyone from faculty and staff, to students and alumni. It inspires our teaching and research.





MANDATE

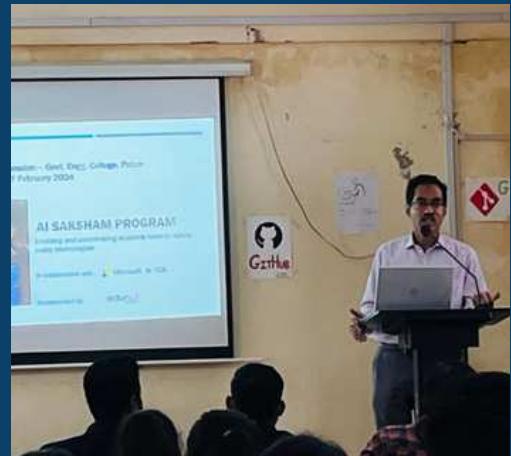
To impart the technical education as per the state and national policy which satisfy the current needs of the society, to interact with the industry and research organizations for the integrated growth, to make the liaison with statutory and professional Organizations and to provide the training and research opportunities to the student and faculties in best possible manner.



MISSION

- To deliver technical programs and services to cater the current needs of society and industry.
- Helping industries in solving challenges by means of providing best technical human resources
- To contribute in sustainable growth of society

VISION



To prepare Human Resource with value based competency for technical advancements and growth of society.



प्रज्ञानम्

JAN-MAR 2025

03



EDITORIAL TEAM

• EDITOR IN CHIEF

Prof. M.B. PATEL

• MEMBERS

Dr. B. J. SHAH

Dr. A. B. DHRUV

Prof. G. A. PATEL

Prof. S. D. JOSHI

Prof. H. B. JETHVA

Prof. V. P. SONI

Prof. V. D. PATEL

Prof. P. N. NIMODIYA

Meet the Newsletter Editorial Team of Government Engineering College Patan, where creativity meets innovation to bring you the latest updates, insights, and stories from our campus community.

"PRAGYANAM"

PREVIOUS EDITIONS

- 2024 OCT-DEC
- 2024 APR-JUN
- 2024 JAN-MAR
- 2023 OCT-DEC
- 2023 JULY-SEPT
- 2023 APR-JUN
- 2023 JAN-MAR
- 2022 OCT-DEC
- 2022 JULY-SEPT
- 2022 APR-JUN
- 2022 JAN-MAR

CONTENTS

1. Departmental Activities
2. Faculty Activities
3. Student Activities
4. NSS Activities



प्रज्ञानम्

JAN-MAR 2025

04





ELECTRONICS AND COMMUNICATION ENGINEERING DEPARTMENT



MOOC Sensitization



On 13th February 2025, the EC Department of GEC Patan organized a MOOC Sensitization program for first-year students, coordinated by Prof. S.A. Pankhaniya and Prof. R.A. Chaudhari. The session introduced the concept, benefits, and GTU guidelines of MOOCs, along with relevant courses for various branches. It aimed to promote digital learning and encourage students to explore opportunities beyond the traditional curriculum.

An interactive Q&A session helped address student queries and increased interest in MOOCs. The event resulted in greater awareness of online learning platforms and highlighted their role in enhancing academic and career growth.



ELECTRONICS AND COMMUNICATION ENGINEERING DEPARTMENT



Industrial Visit



On 21st February 2025, an industrial visit was organized for 4th and 6th semester students of the EC Department to Alpha-numero and Teksun Inc in Ahmedabad. The objective was to provide students with hands-on industrial exposure, particularly in the domains of VLSI Design and Embedded System Design. Experts Mr. Vishnu Vishnav from Alpha-numero and Mr. Birjesh Kamani from Teksun Inc. interacted with students during the visit. A total of 15 students (8 boys and 7 girls) and 2 male faculty members participated.

The visit helped students understand the working environment of industries and introduced them to current trends and innovations in VLSI and embedded systems. They also gained insights into industry expectations and requirements for employment in such sectors. The event was coordinated by Prof. S.D. Joshi and Prof. M.L. Patel, with documentation including feedback and photographs for records.



ELECTRICAL ENGINEERING DEPARTMENT



EXPERT'S TALK



- A one day workshop was arranged on 10/3/25 on Recent Trends in Electrical Power system.
- The lecture was delivered by Mr.Pankaj Suthar, Executive EngineerSLDC, Baroda and Mr. Himanshu Desai Technical Officer, GERMI, Gandhinagar.
- Both the speakers spoke on various types of innovations in Power system. The one day workshop was organised for 2nd to 8th sem Electrical Students.



INDUSTRIAL VISIT

Industrial Visit was organized at Bharat Dairy, Mehsana on 6/2/2025 for the 4th sem students of Electrical Engineering. Automation, Control Panel, Milk Process technology was observed from the students.





MECHANICAL ENGINEERING DEPARTMENT



INDUSTRIAL VISIT



The Mechanical Engineering Department of Government Engineering College, Patan organized an industrial visit to Neptune Industries Limited, Mehsana, to provide students with practical exposure to industrial processes and technologies used in manufacturing. Known for producing machinery related to building construction materials, sanitary ware, porcelain insulators, refractory, and technical ceramics, Neptune Industries offered students valuable insights into real-time operations and professional interactions, effectively bridging the gap between theoretical knowledge and practical application.

On 21st March 2025, final year students of the Mechanical Engineering Department visited COE Automibail, Rajapur, accompanied by Dr. Hitesh Panchal and Prof. N. R. Makawana, to gain practical exposure to real-world industrial processes. The visit provided valuable insights into advanced manufacturing techniques, assembly line operations, quality control, and automation in the automotive industry. Interactive sessions with industry experts deepened students' understanding of mechanical systems and current practices, making the visit a highly educational and inspiring experience that enhanced their career readiness.





MECHANICAL ENGINEERING DEPARTMENT



2 Day Online Workshop

The Mechanical Engineering Department of GEC Patan, in collaboration with Khodiyar CAD Centre Ahmedabad, organized a two-day online workshop on ANSYS Mechanical and Computational Fluid Dynamics (CFD) from 18th to 19th March 2025. Coordinated by Prof. R. A. Oza, the workshop was designed for Semester 4 and Semester 6 students, as well as faculty members, with the aim of enhancing their understanding of advanced simulation techniques and their applications in engineering.

On the first day, participants explored the fundamentals and applications of ANSYS Mechanical and CFD, while the second day focused on advanced Multiphysics simulations. A total of 37 students actively participated in the sessions, gaining hands-on knowledge of simulation-based problem-solving, which is crucial for real-world engineering challenges. The workshop proved to be a valuable learning experience, bridging the gap between academic concepts and industrial applications.



DEPARTMENTAL ACTIVITIES



CIVIL ENGINEERING DEPARTMENT



OFF-CAMPUS Outreach Program



GOVERNMENT ENGINEERING COLLEGE, KATPUR, PATAN, GUJARAT, has participated in online training programme conducted by Indian Institute of Remote Sensing, ISRO Dehradun on "Space Science and Technology awareness training (start)". This online programme was conducted during 09 January 2025 to 29 January 2025.



DEPARTMENTAL ACTIVITIES



APPLIED MECHANICS DEPARTMENT



WORKSHOP on AutoCAD and Sketch-UP



A free Two Days Hands-on Workshop was arranged during 03/04/25 to 04/04/25 on "AutoCAD & Sketch-up for Drafting & 3D Modeling". The lecture workshop was arranged & coordinated by Prof. H. R. Trivedi and was delivered by the industry expert team of Saicad Centre, Patan at free of cost.

Students of civil engineering became familiar with both the software tools and actually practiced commands on AutoCAD & Sketch-up and came to know about the strength of both the tools in drafting and modeling respectively. The work produced by the students during this hands-on workshop is to be the part of submission and has marks weightage as per the marks matrix for internal marks.





COMPUTER SCIENCE & ENGINEERING DEPARTMENT



Industrial Visit



On 20th February 2025, students visited Innovnix Tech Solutions to gain practical insights into the IT industry. The visit included sessions on software development, AI, and current industry practices. Students toured the company's departments, learning about real-time workflows and tools used in tech projects. The visit offered valuable exposure to corporate environments and helped bridge the gap between classroom learning and industry expectations. Students:50



On 20th March 2025, students visited eSparkBiz to gain real-time exposure to the software development industry. The session included an overview of the company's services, a walkthrough of live projects, and interactions with developers current who shared their insights into technologies and career paths. The visit was informative and engaging, offering a hands-on understanding of how tech companies operate and innovate in a competitive market. Students: 50





COMPUTER SCIENCE & ENGINEERING DEPARTMENT



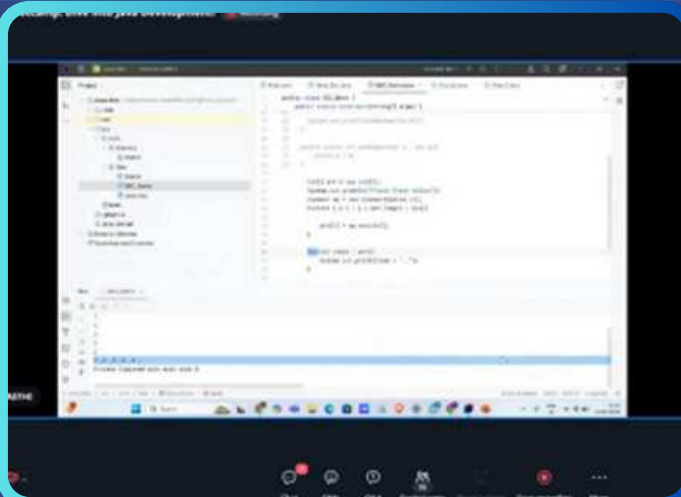
ROBOTICS Workshop



The GDG on Campus GEC Patan, under the Computer Science and Engineering Department, organized a Robotics Workshop on 7th February 2025 from 3:00 to 6:00 PM at the CSE Seminar Hall. The session, led by expert Krish Patel, aimed to introduce students to the fundamentals of robotics, including its components, real-world applications, and future scope. With a hands-on LED blinking activity and demonstrations using Tinkercad, the event provided an engaging and practical learning experience. A total of 40 students.



JAVA BOOTCAMP



The GDG on Campus GEC Patan organized a 2- day online Java Bootcamp on 15th–16th February 2025, held via Bevy, aimed at introducing students and aspiring developers to the fundamentals of Java programming. Conducted by expert Kunal Awasthi, the workshop covered essential topics such as basic Java concepts, object-oriented programming, multithreading, and exception handling. With 50 students participating, the bootcamp offered a blend of theoretical knowledge and hands-on coding practice. Interactive sessions and Q&A segments kept students engaged, while the career- oriented insights provided by the speaker added extra value.



FACULTY ACTIVITIES



Papers Presented/Published



Prof. Shyam A Pankhaniya , Prof. Jayeshkumar C. Prajapati, Prof. Anju M .Vasdevani has Published a paper on "IMPLEMENTATION OF SEGMENTED CURRENT STEERING DIGITAL TO ANALOG CONVERTER USING MEMORY LESS PIPELINE DYNAMIC DESIGN TECHNIQUE" in ICTACT Journal on Microelectronics (Volume: 10 , Issue: 4 , Pages: 1945 – 1951) January 2025

Prof. Nikhil Kumar Singh has completed his PhD on "Person Re-identification Leveraging Deep Learning Methodologies" under the guidance of Dr. H.B.Jethva.



Prof. Jayeshkumar C. Prajapati , Prof. Shyam A Pankhaniya, Prof. Kishor G. Maradia has Published a paper on "Enhancing transmission reach: performance analysis of WDM RoF PON OFDM system design with varied QAM schemes" in Journal of Optical Communications De Gruyter January 28, 2025.

Faculty Activities



Prof. R A Chaudhary and Prof. A.M. Vasadevani have Attended One day Webinar on Today's Exams: The Role of Students, Teachers, Parents, and Society on 21/3/2025 by KCG, Education Department, Government of Gujarat



DR. VIJENDRAKUMAR M. PATEL, has coordinated the online training course on "Space Science and Technology awareness training (start)" conducted by this institute during 09 January 2025 to 29 January 2025.

STUDENT ACTIVITIES



COMPUTER SCIENCE & ENGINEERING DEPARTMENT



NAYAN CHANDULAL RABADIYA
Marks-78.07 AIR-168



MANAN ASHOKKUMAR SOLANKI
Marks-51.02 AIR-4029



VAIBHAV AKHILESH SINGH
Marks-49.07 AIR-4646



YADAV MANISH RAMDEV PRASAD
Marks-41.27 AIR-8463



JATINKUMAR DASHARATHLAL MOCHI
Marks-40.02 AIR-9288



SMRUTIBEN DEVENDRABHAI LAKDAWALA
Marks- 39.64 AIR-9577



TANISHQ PRADIP SHAH
Marks-38 AIR- 387



DHRUV NILESHKUMAR PATEL
Marks-37.69 AIR-11184



AAYUSH AJITSINH SOLANKI
Marks-29.79 AIR-20760



PRINCE CHANDUBHAI PANCHAL
Marks- 28.56 AIR-23003

The Students of CSE Department performed excellent in GATE 2025 Examination. With the best Achievement as AIR 168 – Nayan Chandulal Rabadiya

Diya Ashokkumar Patel, a 6th semester student of Computer Science and Engineering (Enrollment No. 220220131073) secured a Gold Medal at the district level of the Khel Mahakumbh held on 5th May 2025 at Adarsh High School, Patan.



Prisha Patel, a 6th semester student of Computer Science and Engineering (Enrollment No. 220220131095) secured 1st rank at the district level Tennis Tournament of the Khel Mahakumbh at Patan.



NSS ACTIVITIES



Tobacco Free Gujarat

Event Date : 8th jan 2025

Event Venue : GECP College Campus

On 8th January 2025, the NSS Unit of GEC Patan, in collaboration with the Taluka Health Office, successfully organized a seminar on the theme 'Tobacco-Free Gujarat' at Government Engineering College, Patan. The event aimed to spread awareness about the harmful effects of tobacco and promote a healthy lifestyle. Eminent guests Dr. Ruchit Patel and Dr. Jinal Sarvi from Kungher Health Center addressed the students, along with the college principal Dr. B. J. Shah, who motivated attendees to embrace a tobacco-free life. The seminar began with a Deep Pragatya ceremony and the NSS Song, highlighting the values of the NSS. An elocution competition was also held as part of the event, where students actively shared their thoughts on tobacco's impact and healthy living. Winners and participants were felicitated with prizes and certificates, marking a successful conclusion to the awareness initiative.



Road Safety Event

Event Date : 20th jan 2025

Event Venue : GECP College Campus

The NSS Unit of GEC Patan, in collaboration with RTO Patan, organized a Road Safety Event during National Road Safety Month 2025 to raise awareness among students and staff. The event featured speeches, ceremonial activities, and insightful talks by RTO officials D.D. Modi and A.R. Patel on traffic rules, road signs, and youth responsibility. It concluded with a vote of thanks and the National Anthem, reinforcing the importance of road safety and social responsibility.





NSS ACTIVITIES



State Republic Day Parade Camp

Event Date : 16th to 26th Jan 2025
Event Venue : Sumul Dairy Ground-Bijapur, Tapi

The Ministry of Youth Affairs and Sports, Government of India, organizes Pre-Republic Day Camps across the country to select NSS volunteers for Republic Day events. We are proud that Ms. Nishtha Patel, an NSS volunteer from GEC Patan (CSE, 6th Semester), was selected for the State Republic Day Parade Camp held in Tapi from 16th to 26th January 2025. The camp brought together 26 diverse platoons, including police, forest service, NCC, NSS, and school students, who underwent intensive training. Volunteers participated in cultural performances, parades, and skill demonstrations like bike stunts and dog shows. Accommodation and daily transport were efficiently arranged by the Tapi Police Department, with female volunteers staying at Sabarmati Ashram and male volunteers at Bijapur High School.

The daily schedule began at 6:00 AM with warm-ups, followed by structured parade drills, cultural rehearsals, and afternoon practice sessions. Meals and rest breaks were integrated into the rigorous routine to support participants' energy and focus. The camp concluded on 26th January with a grand Republic Day Parade graced by Hon'ble Chief Minister Shri Bhupendra Patel. The event featured a ceremonial flag hoisting, platoon inspection, and a majestic march-past, highlighted by a symbolic helicopter flower shower—creating a proud and unforgettable experience for all involved.





NSS ACTIVITIES



14th Bhartiya Chhatra Sansad

Event Date : 08th February – 10th February 2025
Event Venue : MIT-WPU, Pune

The 14th edition of the Bharatiya Chhatra Sansad (BCS), held at MIT World Peace University, Pune from 8th to 10th February 2025, provided a powerful platform for students across India to explore leadership, governance, and political ideologies. Among the participants was Abhishek Mehta, an NSS volunteer from GEC Patan. The event opened with a grand inaugural session featuring distinguished leaders like Smt. Sumitra Mahajan and Dr. Rahul V. Karad. Panel discussions and sessions explored critical political themes, including ideologies in Indian politics and the significance of youth participation. Recognitions like the Ideal Legislative Assembly Speaker Award were also presented, celebrating excellence in public service.

Day two of BCS featured heated debates on "Revadi Culture" and the cultural identity of Indian youth, with insights from speakers such as Shri. Pawan Khara and Shri. Arun Govil. Awards such as the Bharat Asmita Jana Pratinidhi Shreshtha were conferred, further motivating young changemakers. Day three centered on the theme "AI and Social Media: Power or Pitfall?", with discussions on digital transformation and its societal impact. The event concluded with a valedictory session honoring exceptional participants and reaffirming BCS's mission to inspire a new generation of socially responsible and politically aware youth leaders.



The Sainik Welfare Fund initiative at Government Engineering College, Patan, in 2025, showcased the collective spirit of students and faculty towards honoring the sacrifices of ex-servicemen and the families of martyred soldiers. Guided by their professors and led by the NSS unit, volunteers actively collected donations within the college, receiving full support from Principal Dr. B.J. Shah and all departments. The activity not only strengthened students' values of service, teamwork, and patriotism but also extended beyond the campus, reaching government offices like the Collector Office, Mamlatdar Office, Nagarpalika, Police Stations, and several schools, where they spread awareness and gathered widespread support from officers, staff, and the general public.

Through their united efforts, the NSS volunteers raised an impressive ₹1,31,131 – the highest amount collected by the college in nine years and the top contribution among educational institutions in Gujarat State. The fund was formally submitted to the Vice-Chancellor of Gujarat Technological University (GTU) at Chandkheda, with GEC Patan proudly recognized for making the largest contribution among all NSS units under GTU. This achievement reflected the deep sense of patriotism, dedication, and teamwork among the students, leaving a lasting impact and inspiring continued commitment to serving the nation.



The Gujarat State Viksit Bharat Youth Parliament 2025 was a grand platform celebrating youth leadership and constitutional values, where over 1800 students from 15 Nodal Districts competed at the District Level. From this pool, the Top 10 students were selected for the prestigious State Level event. Among them, Abhishek Mehta, an NSS volunteer from GEC Patan (CSE 4th Semester), proudly represented the Patan Nodal District. After impressive discussions on national issues at the District Round on 21st March 2025 at HNGU Patan, the State Level session was held on 29th March 2025 at the historic Gujarat Vidhan Sabha. Participants stayed at Modeshwari Bhavan, adding to the enriching experience of engaging in spirited debates themed around "The Glorious 75 Years of the Indian Constitution" and "The 11 Sankalps of Samvidhan Divas."

During the event, students had the privilege of a Round Table discussion with Honourable Speaker Shri Shankar Bhai Chaudhary, who encouraged youth involvement in politics and nation-building. Other dignitaries, including the Mayor of Gandhinagar, Shrimati Miraben Patel, and respected judges like GTU Program Officer Prof. Bharat Vadhiya, graced the occasion. The participants also interacted with NSS Regional Director Dr. Kamal Kumar Kar. Out of 140 state representatives, the selection in the Top 10 marked a moment of immense pride. Flawlessly organized by NYKS and NSS Gujarat, the event successfully fostered civic engagement, leadership, and patriotic spirit among the youth.



World Sparrow Day

Event Date : 20th February 2025

Event Venue : Harsh Plaza, Liliwadi, Patan

On World Sparrow Day, NSS GEC Patan, in collaboration with Aryavrat Nirman Seva Trust, organized a significant conservation initiative to raise awareness about the declining sparrow population and promote environmental responsibility. As part of the drive, 2000 bird nests and 2000 water pots were distributed throughout Patan to provide safe habitats and water sources for sparrows, especially during the summer. The event saw active participation from volunteers, environmentalists, and local residents, fostering a collective spirit towards biodiversity preservation. It not only emphasized the need for sparrow conservation but also educated the public on the broader impacts of environmental degradation, showcasing the power of community-driven action.



* SUPPORT TEAM *

1. Prof. Adesh V. Panchal
2. Prof. Sachin H. Makwana
3. Abhishek H. Mehta (230220131055)
4. Joshi Parv Kashyap (240220111004)
5. Singh Niraj Tejnarayan (240220131126)
6. Tirth Patel (240220131142)
7. Krish Patel (240220131073)
8. Oza Nikhil (240220131052)